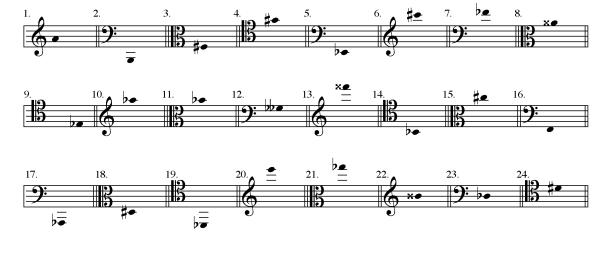
Answers to in-text exercises

Level Mastery 1.1.



Level Mastery 1.2.











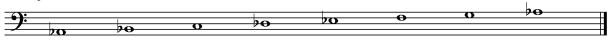
Level Mastery 1.3.

Ab	B♭	С	D	EЬ	F	G	Aþ
C#	D#	E#	F#	G#	A#	B#	C#
E	F#	G#	А	В	C#	D#	Е
Gþ	Ab	B♭	Cþ	Dþ	Eb	F	G۶
А	В	C#	D	E	F#	G#	А
F#	G⋕	A#	В	C#	D#	E#	F#
	C# E G♭ A	C# D# E F# Gb Ab A B	С# D# E# E F# G# Gb Ab Bb A B C#	C# D# E# F# E F# G# A Gb Ab Bb Cb A B C# D	C# D# E# F# G# E F# G# A B Gb Ab Bb Cb Db A B C# D E	C# D# E# F# G# A# E F# G# A B C# Gb Ab Bb Cb Db Eb A B C# D E F#	C# D# E# F# G# A# B# E F# G# A B C# D# Gb Ab Bb Cb Db Eb F A B C# D Eb F

b.



Ab major

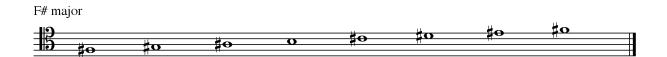






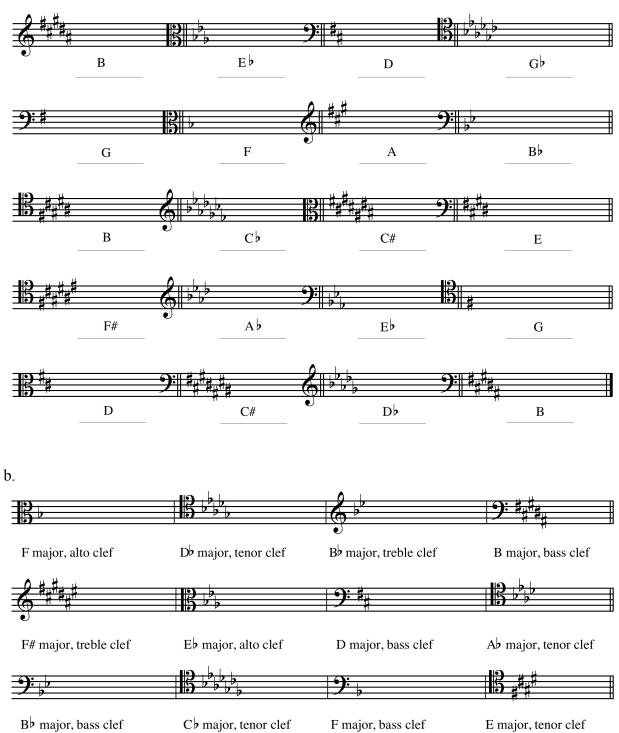
Gb major

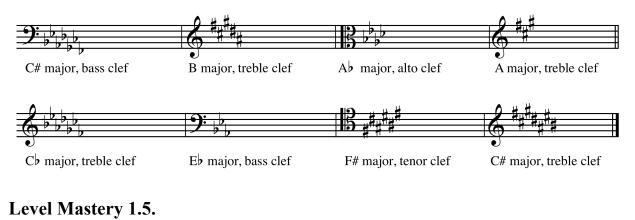




Level Mastery 1.4.

a.



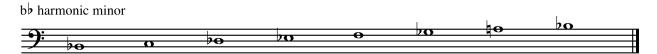


	-							
a.	eb harmoni	c minor:						
	eb	f	gb	ab	bb	cb	d	eb
	g# natural r	ninor:						
	g#	a#	b	C#	d#	e	f#	g⋕
	f melodic r	ninor, de	scendin	ig:				
	f	eb	db	c	bb	ab	g	f
	bb melodic	minor, a	scendin	g:				
	bb	c	db	eb	f	g	a	bb
	d natural m	ninor:				·		
	d	e	f	g	а	bb	с	d
	f# harmoni	e minor:						
	f	g#	а	b	c#	d	e#	f#

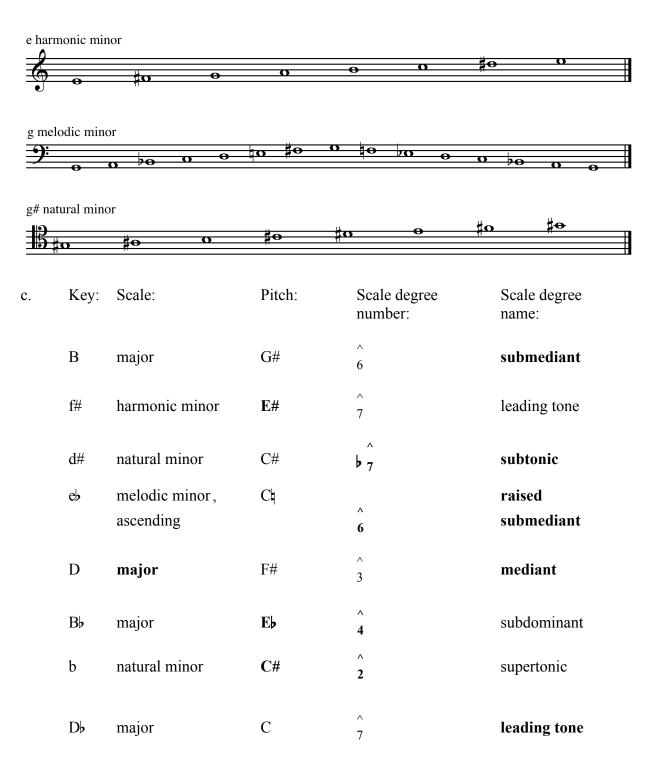
b.

c# melodic minor

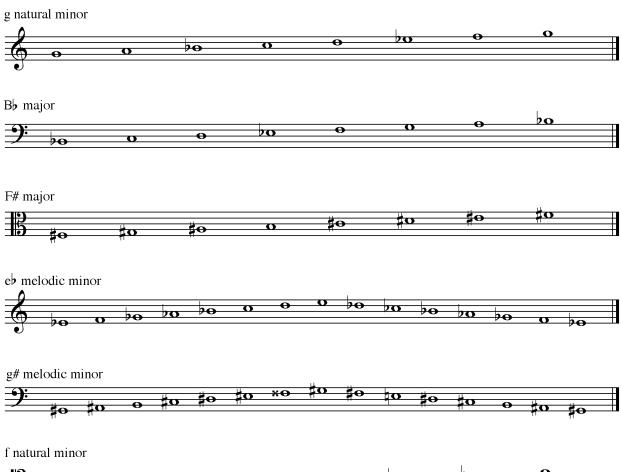




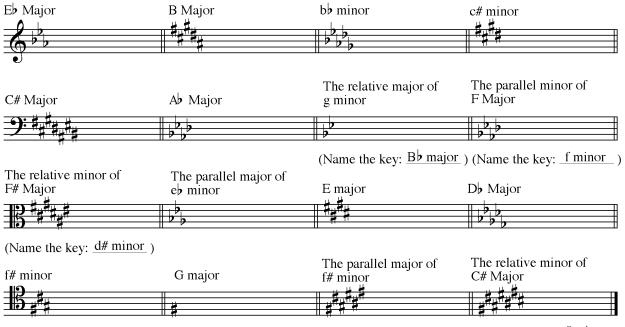




d.

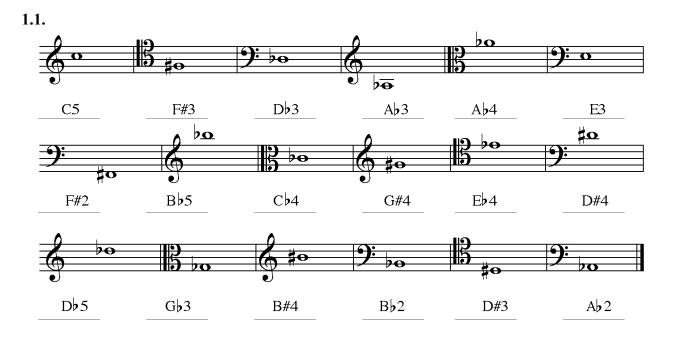


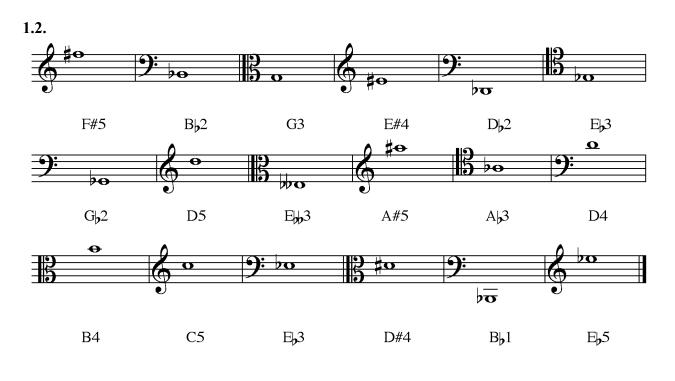
Level Mastery 1.6.



(Name the key: <u>a# minor</u>)

Chapter 1 Self-Test





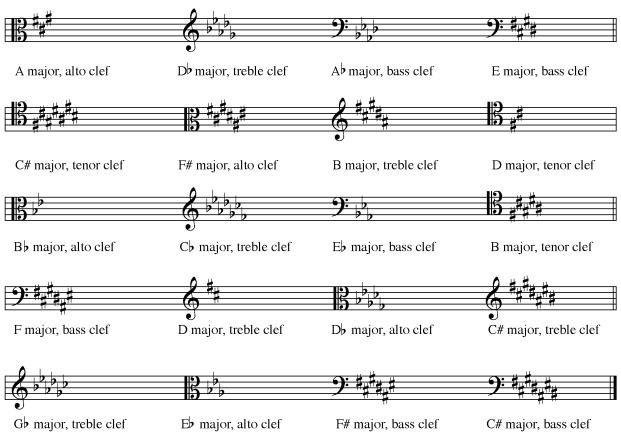








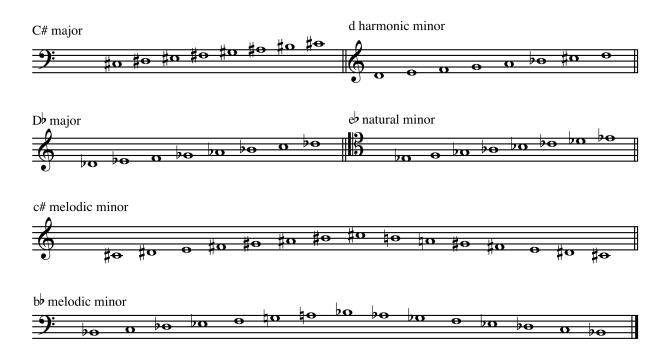
1.4.



1.5.



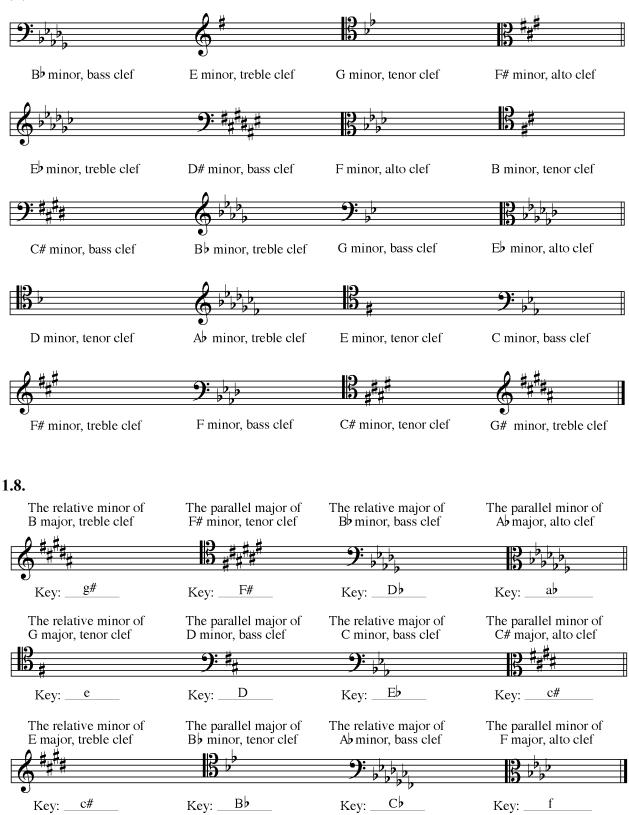




1.6.

Pitch	Scale degree name	Scale
<u>C</u>	submediant	Eb Major
G	mediant	<u>e</u> minor (all forms)
F#	raised submediant	a melodic minor, ascending
Dþ	subtonic	eb natural minor
<u>B×</u>	leading tone	c# harmonic minor
E	subdominant	b minor (all forms)
F	dominant	<u>B</u> ♭ major
B	supertonic	A major
В	raised submediant	d melodic minor, ascending
		[ascending/descending]
G	supertonic	f minor (all forms)

1.7.



1.9.

Ва G# Еа Аа

Chapter 1 Apply This!

1.1. Analysis

The underlying scale for this excerpt is d harmonic minor.

1.2. Improvisation

Various solutions are, of course, possible.

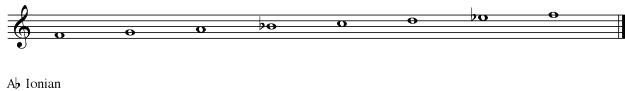
Level Mastery 2.1.

a. Bb Aeolian:

	Bþ	С	Dþ	Еþ	F	Gþ	Ab	B♭
G # Ph	rygian:							
	G#	A	В	C#	D#	Е	F#	G#
G Lye	dian:							
	G	А	В	C#	D	Е	F#	G
Eþ Mi	xolydia	an:						
	Eþ	F	G	Ab	Bþ	С	Dþ	Eþ
D Loo	crian:							
	D	Eþ	F	G	Ab	Bb	С	D
F# Do	rian:							
	F#	G#	А	В	C#	D#	Е	F#

b.







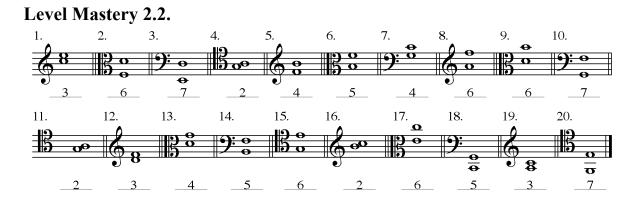




A Locrian

F Aeolian

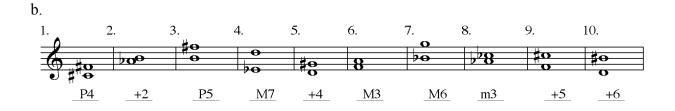
c. D Phrygian 0 20 0 0 ο Ο 20 B^b Lydian 20 9 Ο θ Ο 20 θ Ο B Dorian θ **‡o** 0 **‡**0 θ **‡o** Ο 0 Bb Mixolydian 20 20 Θ 20 Ο θ σ \mathcal{D} C# Locrian **‡**⊖ 0 0 **‡o** 0 ‡ο ο F Phrygian 20 20 20 Θ **20** 20



Level Mastery 2.3.

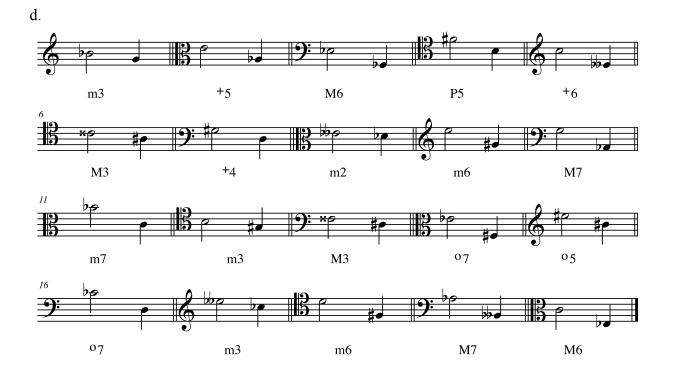


(additional solutions are possible for most of these, employing double sharps and double flats)

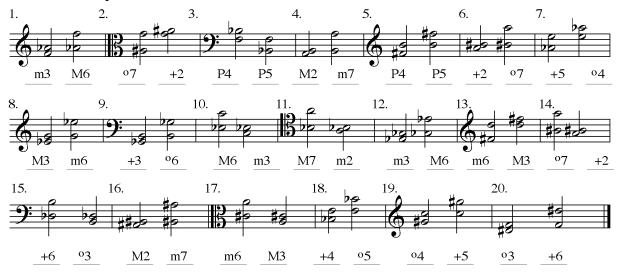




16

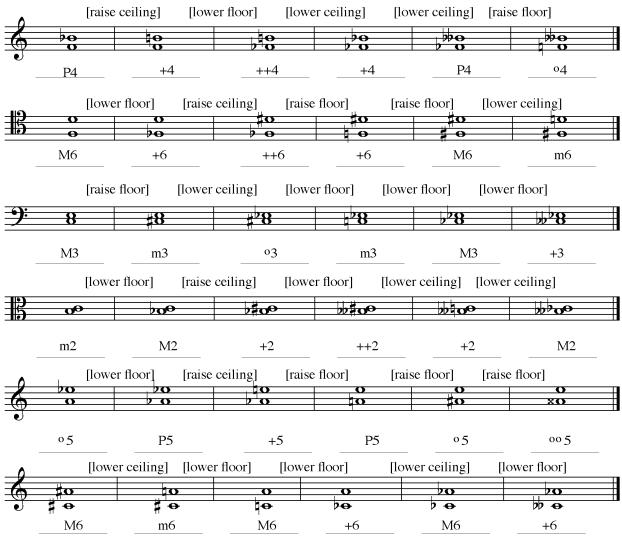


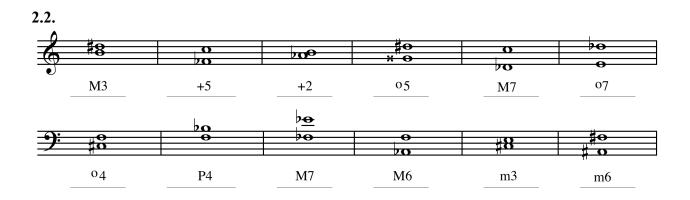
Level Mastery 2.4.

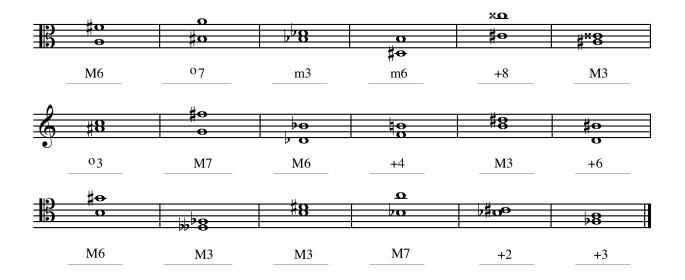


Chapter 2 Self-Test

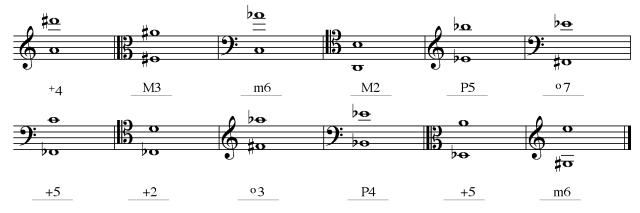
2.1.







2.3.



2.4. #0 20 20 ×¥8 \$8 \$0 Ο М3 ٥5 m3 m6 +4 m7 **b**-•-XO #[#]* 0 Ð 50 ο 20 P4 +2 m2 07 +4 M6



2.6.

P4 P5 M3 m6

+6	°3	°5	+4
m3	M6	+2	°7
+5	°4	m2	M7
+3	°6	°8	$^{+}1 \text{ or }^{+}U$

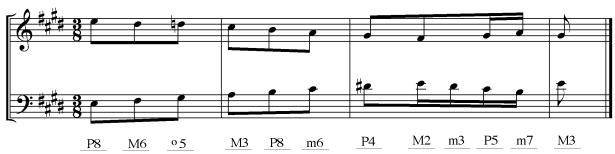
Chapter 2 Apply This!

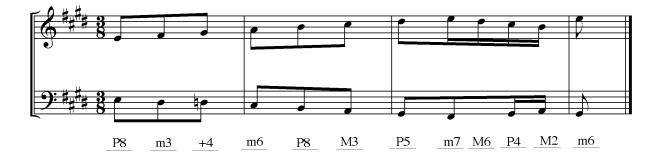
- 2.1. Analysis
 - a. Mixolydian
 - b. Dorian
 - c. Lydian and Ionian

2	3
4	.

1.	°7	2.	°5	3. <u>°4</u>	4.	M2
5.	m2	6.	M3	7. <u>M6</u>	8.	M7
9.	+4	10.	+4	11. <u>M6</u>	12.	M3

2.4.





The two examples are strict intervallic inversions of each other.

Level Mastery 3.1.

1.	•	х	3	=	0.
2.	•7	х	4	=	-
3.	A	х	7	=	.
4.	♪.	х	4	=	0.
5.	ş.	х	2	=	- .
6.	Ÿ	X	3	=	.
7.	ľ	X	12	=	o٠
8.	-	X	4	=	•
9.	•	X	8	=	O
10.	•7 -	х	2	=	۶·
11.	ľ	Х	4	=	0
12.	Ÿ	х	14	=	-

Level Mastery 3.2.

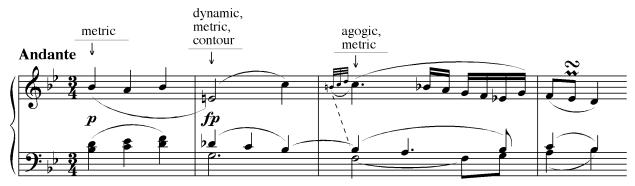
a. Answers below in boldface.

4 4	simple	compound	duple	triple	quadruple
3 8	simple	compound	duple	triple	quadruple
6 16	simple	compound	duple	triple	quadruple
¢	simple	compound	duple	triple	quadruple
9 4	simple	compound	duple	triple	quadruple
3 4	simple	compound	duple	triple	quadruple

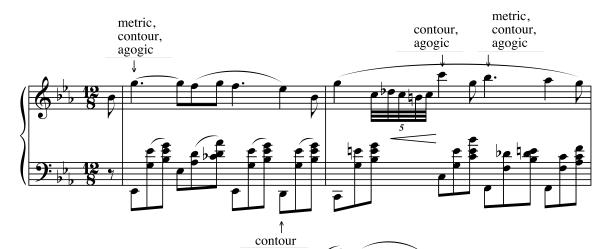


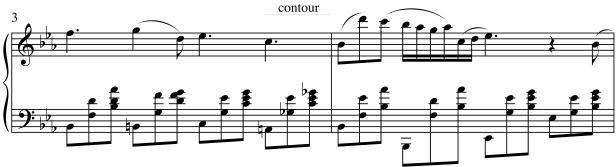
Level Mastery 3.3.

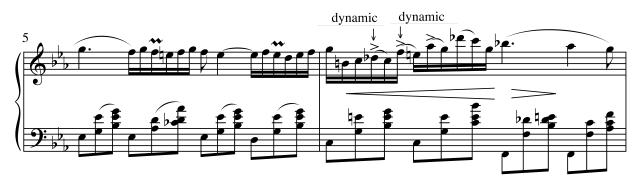
a.

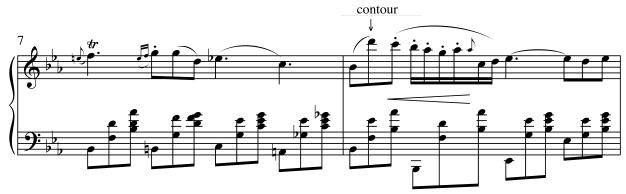


b.

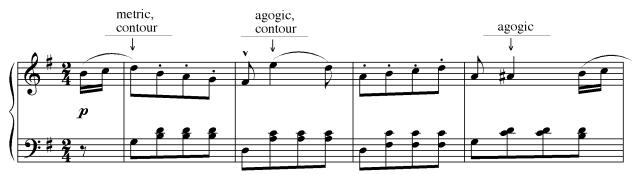








c.

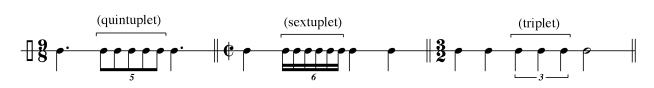


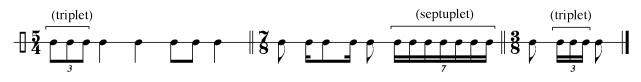


contour







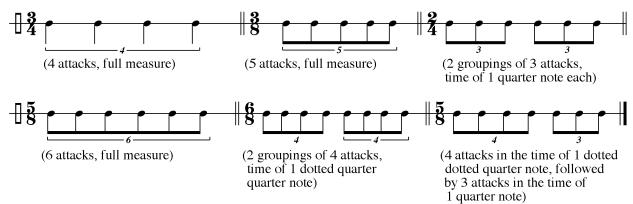


Chapter 3 Self-Test

3.1.	1. D	2. H	3. G	4. C	5. E	6. J	7. F	8. A	9. B	10. I
3.2.	1. D	2. F	3. I	4. H	5. J	6. G	7. B	8. C	9. A	10. E
3.3.	9 16			compound				ple		
	2 8			sim	ple		duple			
	3 2			simple			trip	le		
	6 8			compound			duple			
	4 4			sim	ple		qua	druple		

3.4.

EXAMPLE

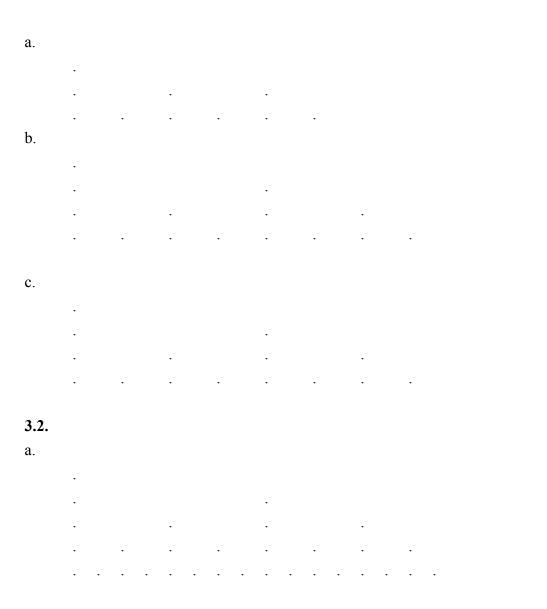




Chapter 3 Apply This!

3.1.

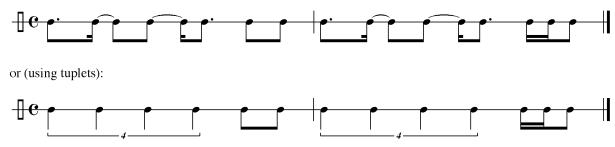
Each answer represents one measure.



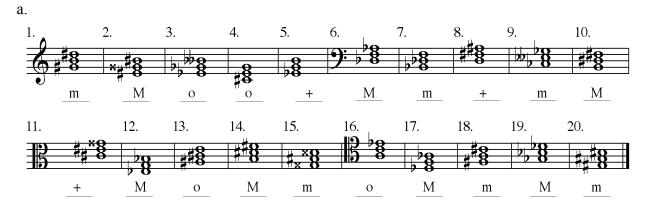
b. Polymeter. The drum pattern best fits a $\frac{4}{4}$ meter, but the guitar riff is in $\frac{3}{8}$. See the following:



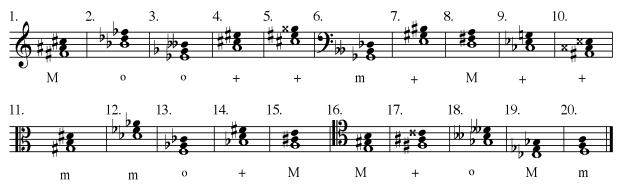
c.

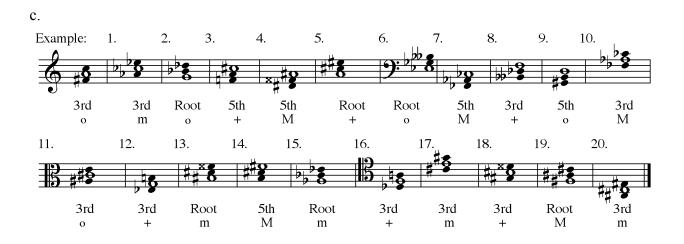


Level Mastery 4.1.

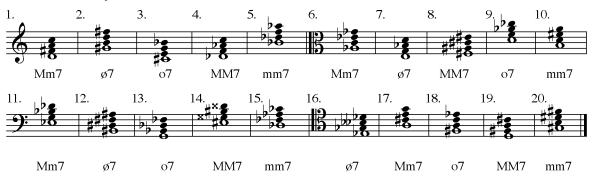




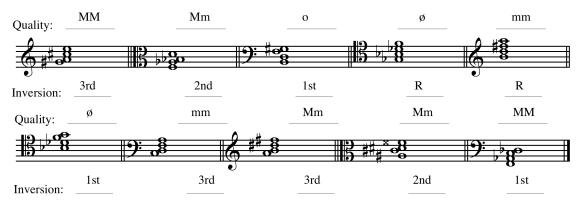


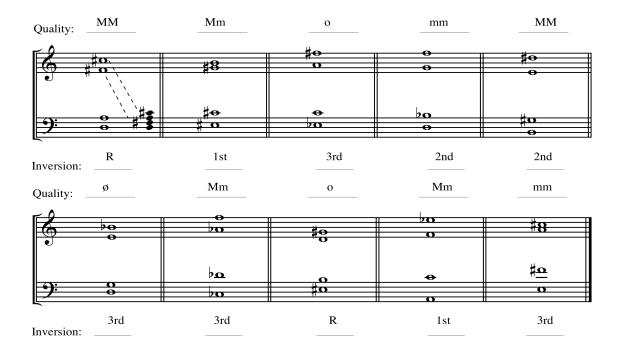


Level Mastery 4.2.



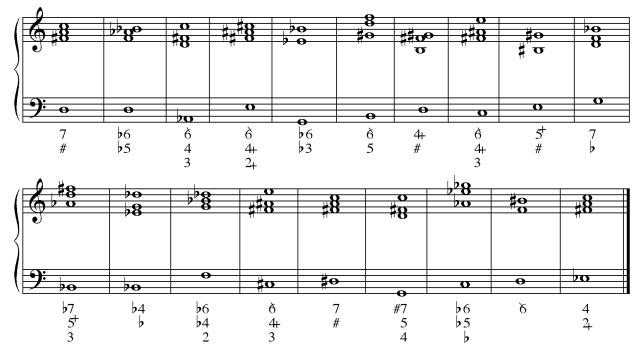
Level Mastery 4.3.



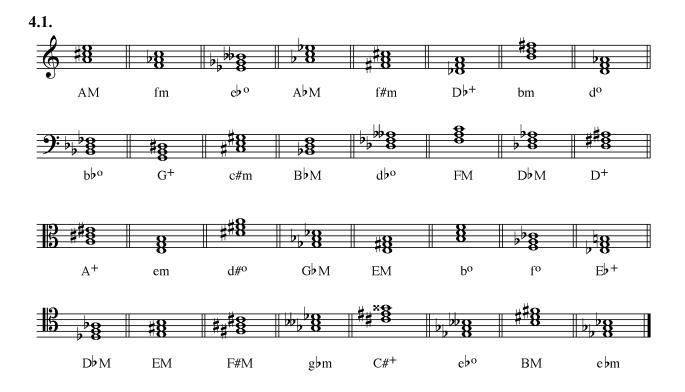


Level Mastery 4.4.

Various spacings are permissible. Note that some chords have additional tones implied by the chord structure—for example, a fifth added between a third and seventh within a seventh chord.

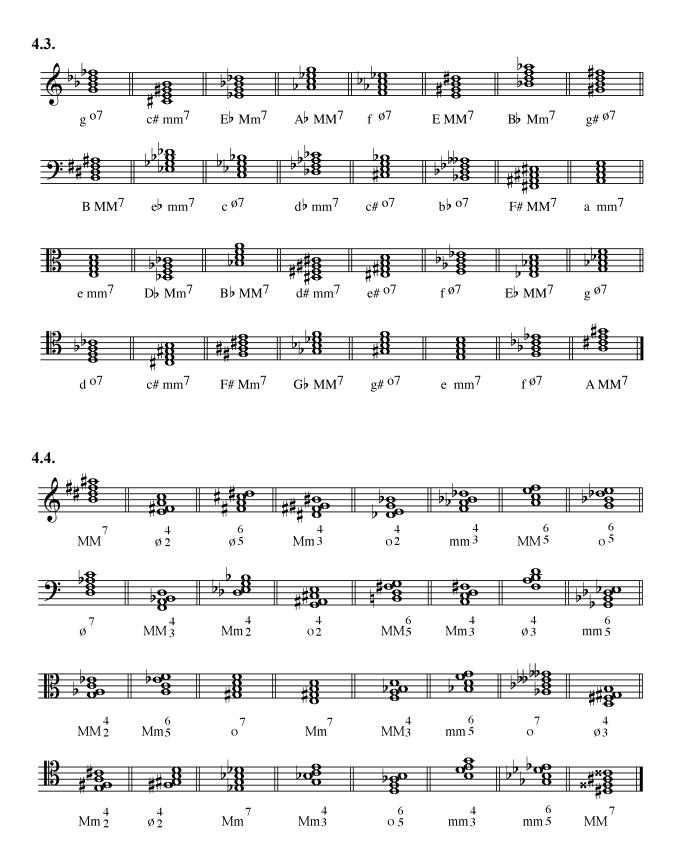


Chapter 4 Self-Test



4.2.

Quality	Root	Third	Fifth	Triad
major:	A	C#	E	AM
minor:	B	Db	F	bbm
augmented:	G#	B#	D×	<u>G#+</u>
diminished:	Dþ	Fb	App	dbo
major:	Вþ	D	F	B♭M
major:	Epp	Gþ	Bpp	EppM
diminished:	E	G#	В	e#°
minor:	D#	F#	A	d♯m
augmented:	Bþ	D	F#	Bb+
minor:	F	Aþ	С	fm



Chapter 4 Apply This!

4.1.

7.1.	Quality:	Inversion:	RN analysis:
Measure 2, quarter-note beats 1 & 2:	M	6	IV ⁶
Measure 3, quarter-note beats 1 & 2:	<u></u> Ø7	7	
Measure 3, quarter-note beats 3 & 4			
(piano only):	Mm7	7	V ⁷
Measure 4, quarter-note beat 3			
(right-hand piano only):		6 4	
Measure 5, quarter-note beats 3 & 4			
(piano only):	<u>MM7</u>	4 3	<u> </u>
Measure 6, quarter-note beats 1 & 2:	MM7	7	IV^7
Measure 6, quarter-note beats 3 & 4:	_mm7_	4 —_3 —_	$-vi_{3}^{4}-$
Measure 7, quarter-note beats 1 & 2:	7	7	ii ⁷
Measure 7, quarter-note beats 3 & 4			
(piano only):	_MM7_	4 —_3 —_	IV_3
Measure 8, quarter-note beats 1 & 2:	Ø7	7	vii ^{ø7}
Measure 8, quarter-note beats 3 & 4:	_mm7_	4 —_3 —_	<u> </u>
Measure 9, quarter-note beats 1 & 2:	Mm7	(root)	V ⁷
Measure 10, quarter-note beats 3 & 4			
(piano only):	M	6	IV ⁶

Measure 11, quarter-note beats 1 & 2:	°7	7	
Measure 11, quarter-note beats 3 & 4:	Mm7	6	$_{5}^{$
Measure 12, quarter-note beats 3 & 4:	<u> </u>	(root)	<u> </u>
Measure 13, quarter-note beats 1 & 2:	<u> </u>	(root)	vi
Measure 14, quarter-note beats 3 & 4:	M	<u>(root)</u>	
Measure 15, quarter-note beats 1 & 2:	<u> </u>	(root)	
Measure 28, quarter-note beats 1 & 2:	<u>ø7</u>	7	
Measure 28, quarter-note beats 3 & 4:	+	6	
Measure 29, quarter-note beats 1 & 2:	<u>ø7</u>	7	
Measure 30, quarter-note beats 3 & 4:	Mm7	7	
Measure 31, quarter-note beats 3 & 4:	Mm7	7	V ⁷
Measure 35, quarter-note beat 3:	M	6 4	I_4

4.2.

	1.	2.	4.
Root:	D	B	G
Quality:	Μ	<u> </u>	Μ
Inversion:	Root	1st	2nd

See the chord symbols in Example 4.7 of the text. In the first two chords, the E is a "color tone" and not considered part of the triad.

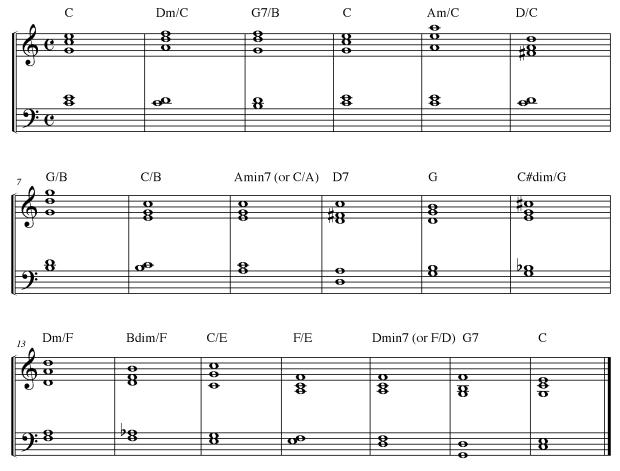


4.3. Various voicings/realizations are possible. The following is one possible rendition that might be used as a model for comparison.



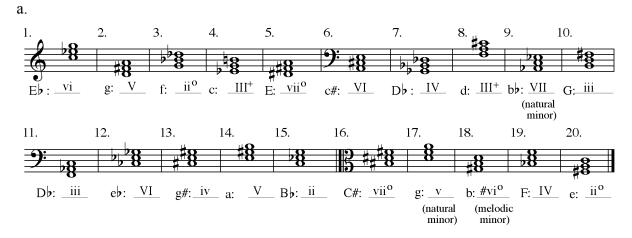


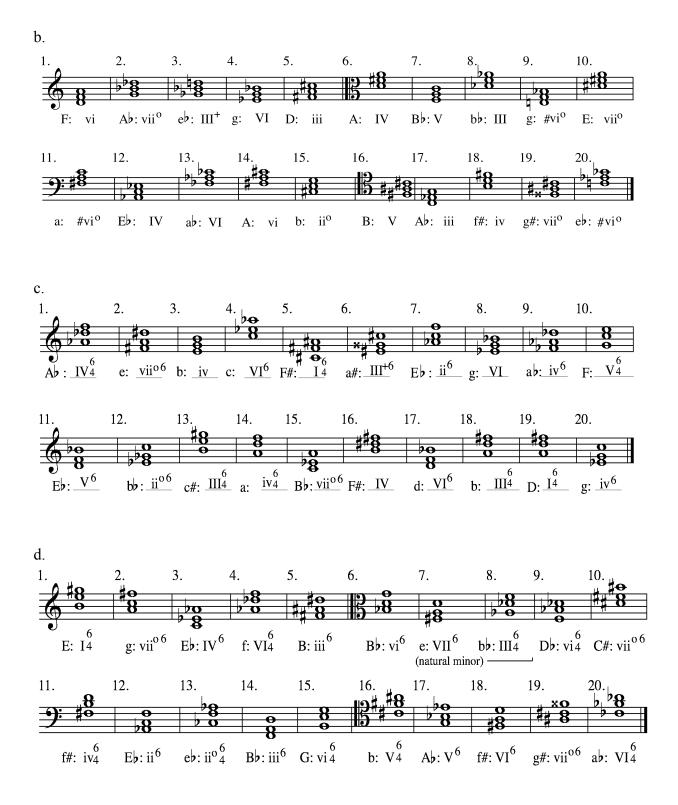




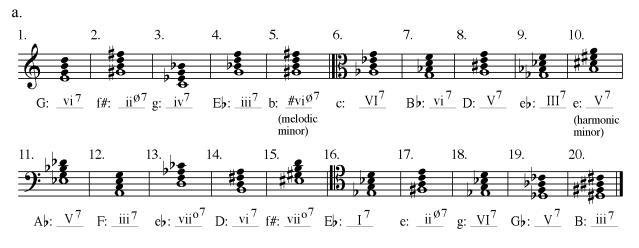
Slight variants on the above (as noted in the text) are permissible, for instance "CM" or "CMaj" instead of "C."

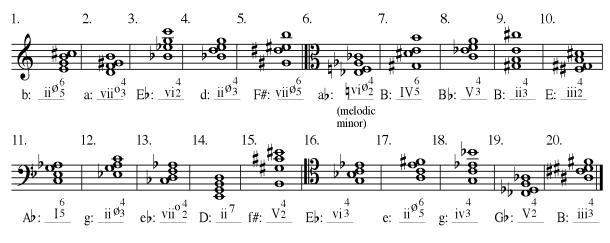


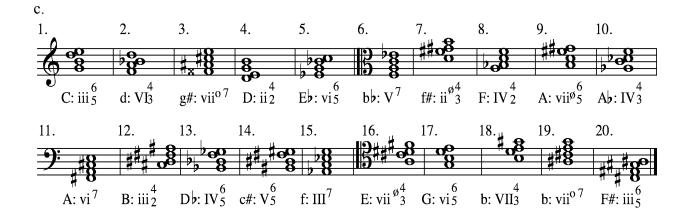




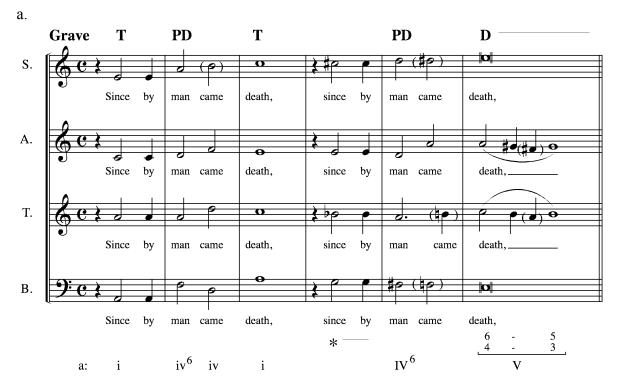
Level Mastery 5.2.

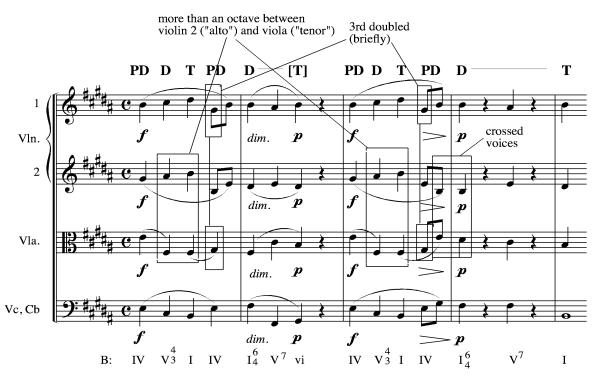


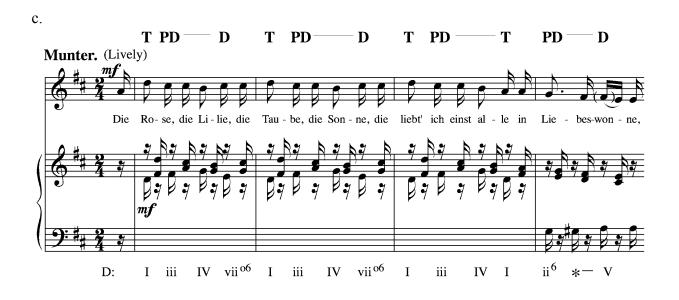


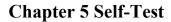


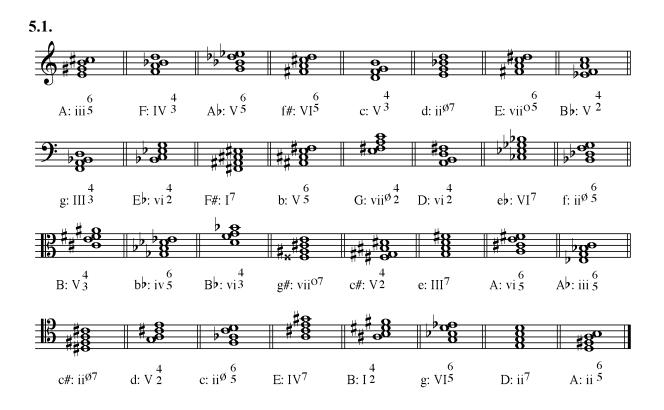
Level Mastery 5.3.







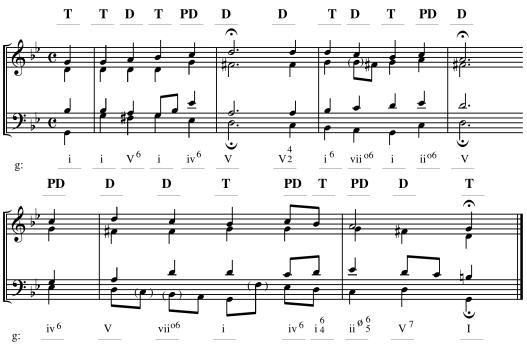


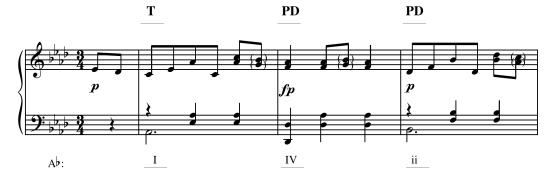


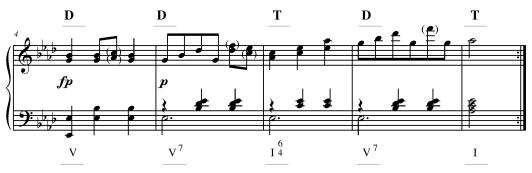
Chapter 5 Apply This!

5.1.

a.







Level Mastery 6.1.

Various answers are possible. The melodies below are provided as suggested guidelines.

Numbers refer to (consonant) intervals above the bass.



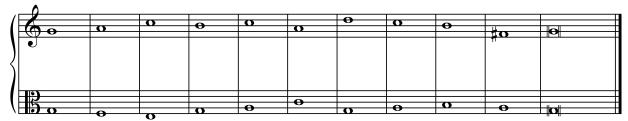
5. similar

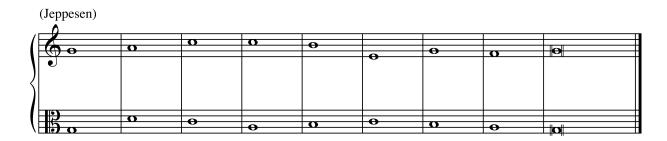
Level Mastery 6.2.

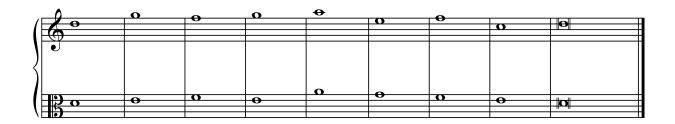
a. 1. parallel 2. oblique 3. contrary

b. 1. contrary 2. oblique 3. parallel 4. similar

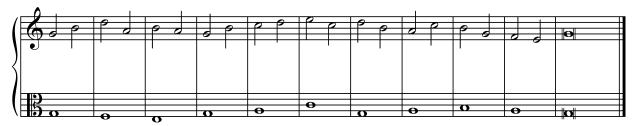
Level Mastery 6.3.







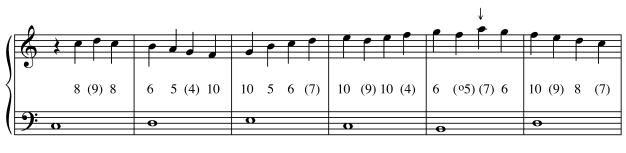
Level Mastery 6.4.

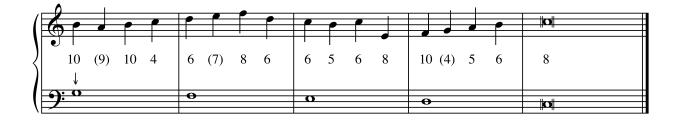


Level Mastery 6.5.

Numbers refer to intervals above the bass. Dissonances are in parentheses.

a.

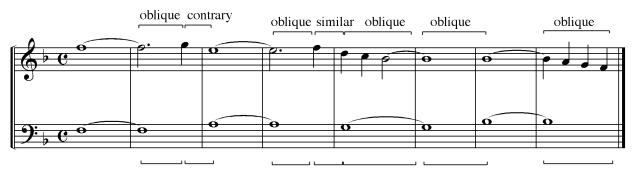




b.

Chapter 6 Self-Test

6.1.



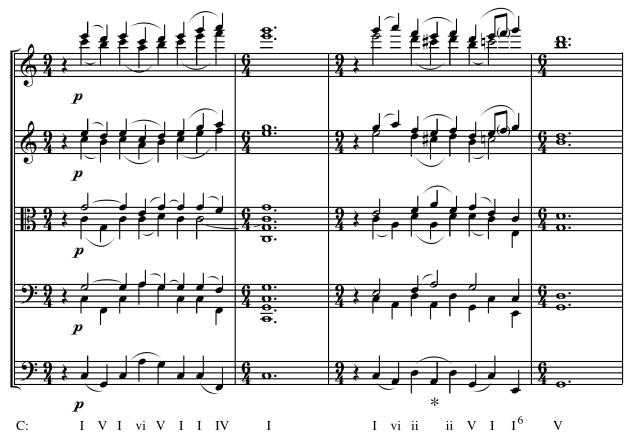
6.2.

- a. Generally well formed, with a single focal point and mostly conjunct motion; one leap is followed by a step in the opposite direction. The melody begins and ends on the tonic.
- b. This melody is too disjunct. The first leap is too large (a sixth); other leaps are followed by another leap, or by a step in the same direction rather then "filled in" with a step in the opposite direction.

c. Measures 4 through 6 contain two leaps of a fourth in the same direction, and the second leap is an augmented fourth (tritone). The last four measures outline a whole-tone tetrachord.

Chapter 6 Apply This!

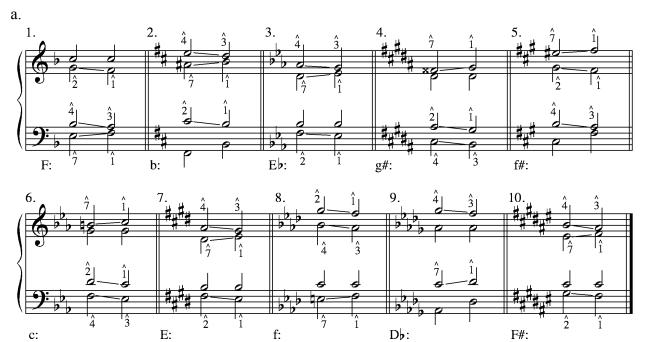
6.1.

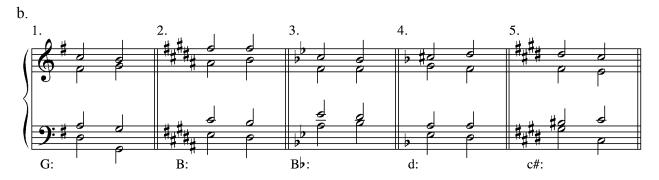


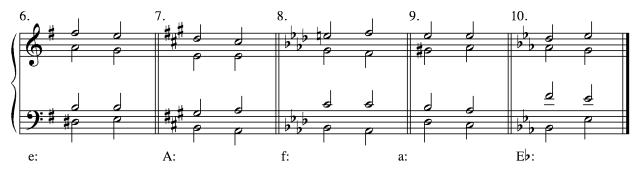
6.2. Composition.

Various solutions are possible.

Level Mastery 7.1.



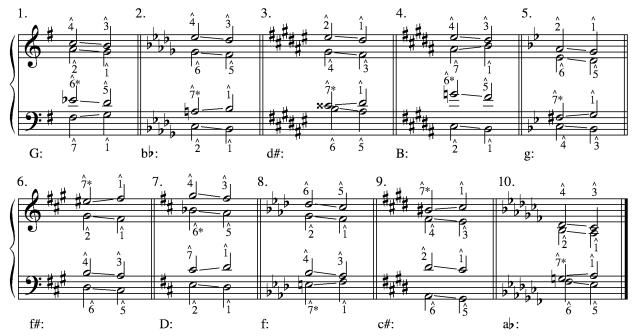




Level Mastery 7.2.

a.

(Asterisks indicate tendency tone resolutions involving chromatic alteration.)



b.

(Asterisks indicate tendency tone resolutions involving chromatic alteration.)





c.

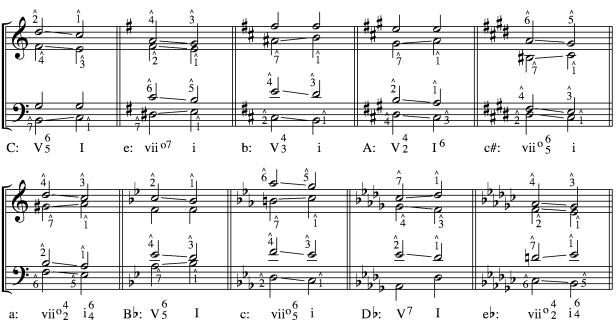


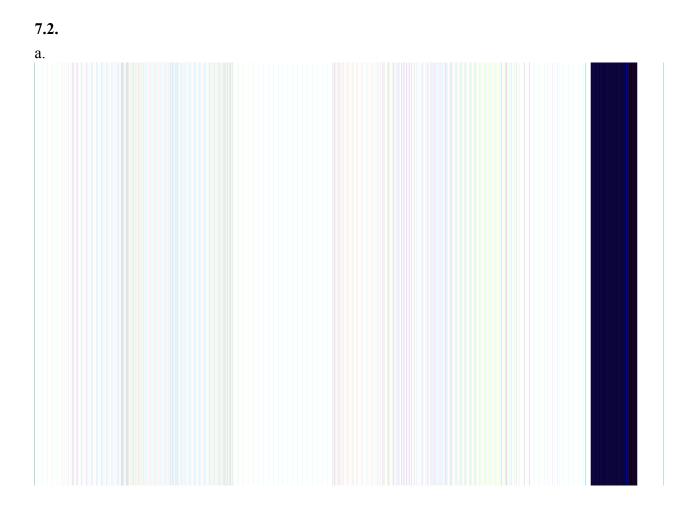
Level Mastery 7.3.

a.	PAC	b.	ii:IAC	c.	IAC
d.	HC; IAC	e.	PC	f.	DC
g.	HC; PAC	h.	PC; HC; PC; IAC		

Chapter 7 Self-Test

7.1.





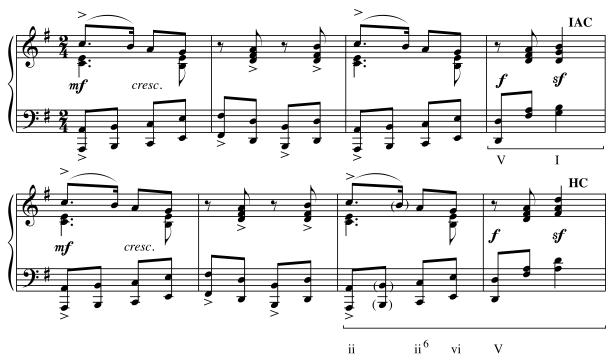




c.

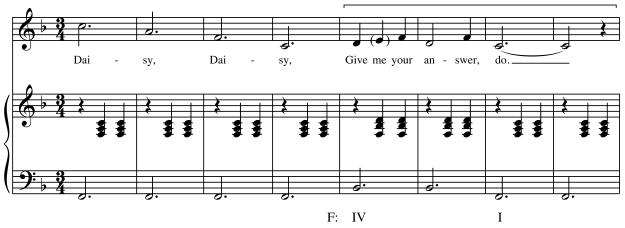


d.



e.

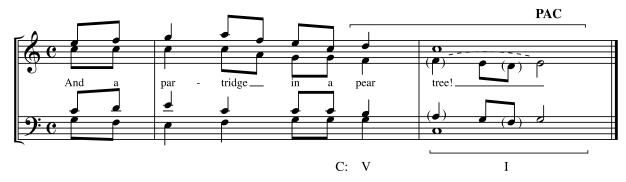
PC



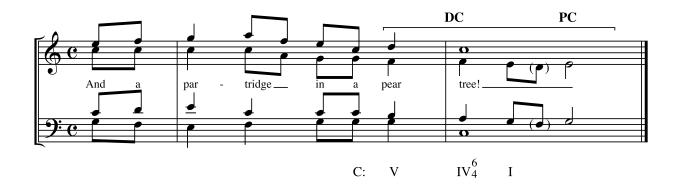
Chapter 7 Apply This!

7.1.

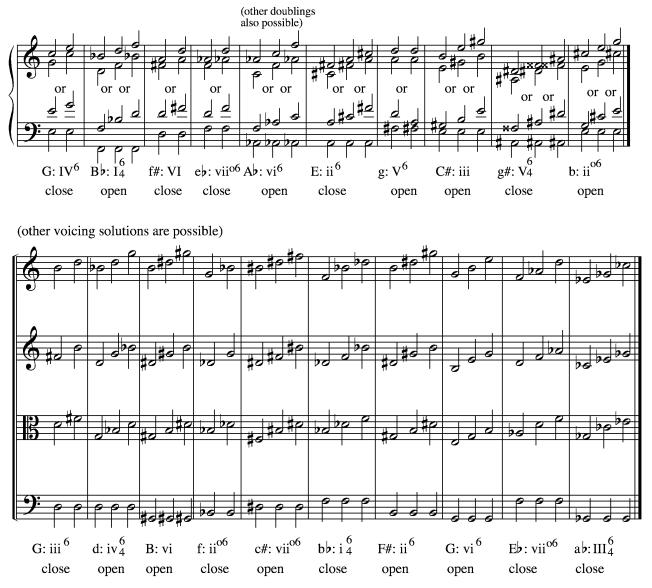
Even though the downbeat of the final measure appears to spell out a second-inversion IV chord, the chord is the product of non-chord activity as shown in the first interpretation below.



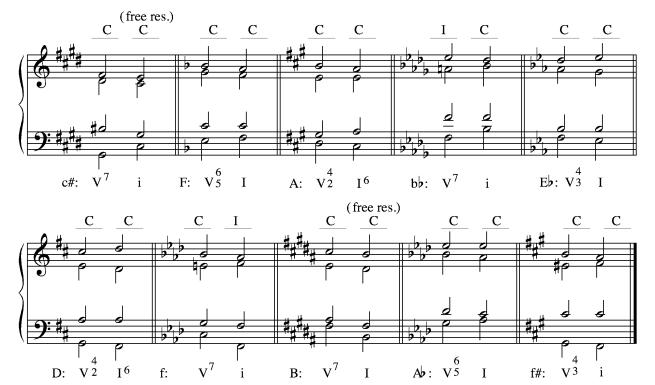
The second interpretation (following) is problematic. First, the "deceptive" cadence does not occur at the end of the phrase—the move to the tonic after the IV implies a plagal cadence. A second problem is that the movement to the tonic happens on the metrically weak second beat, whereupon it is held for three beats—creating an awkward "syncopated" harmonic rhythm.



Level Mastery 8.1.

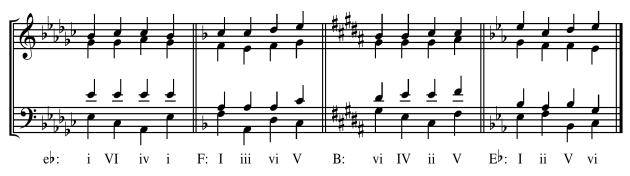


Level Mastery 8.2.

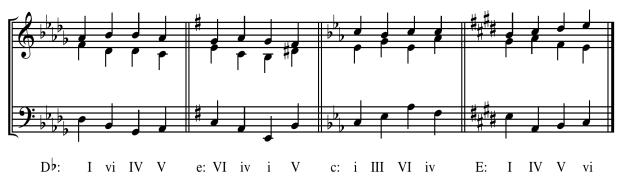


Level Mastery 8.3.

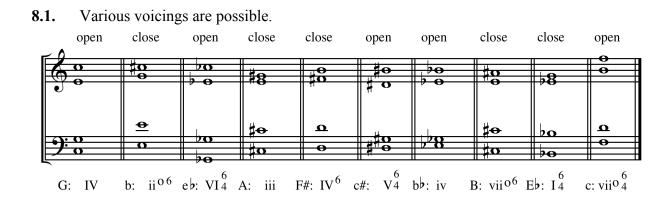
a.



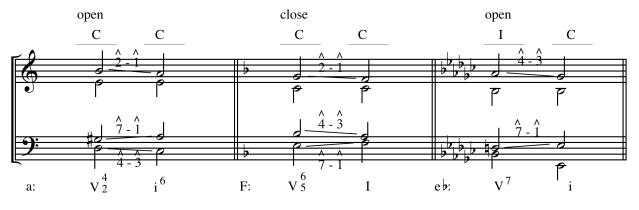
b.

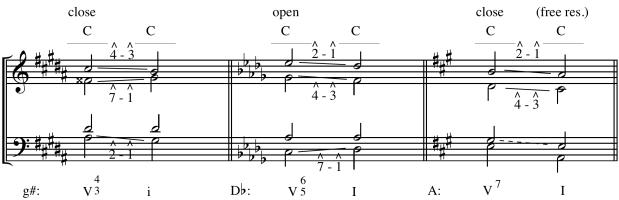


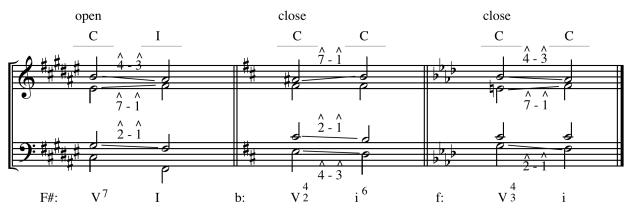
Chapter 8 Self-Test



8.2.



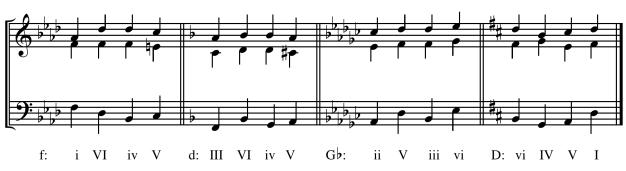






8.3. Various soprano parts possible and, hence, various voicings.

8.4.



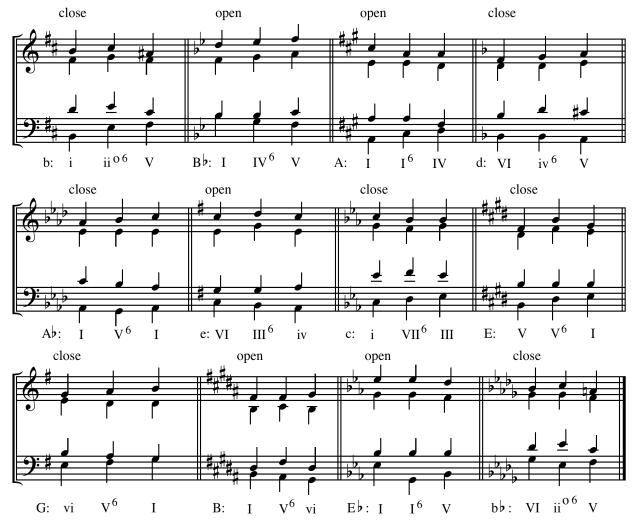
Chapter 8 Apply This!

8.1.

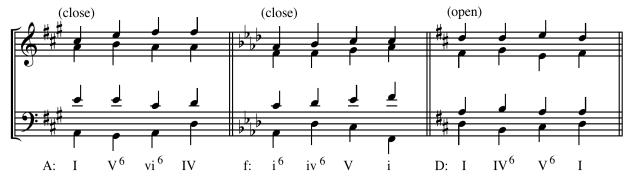


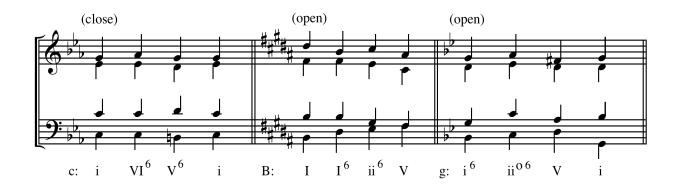
* - indicates third of chord is doubled rather than the root ** - indicates fifth of chord is doubled rather than the root

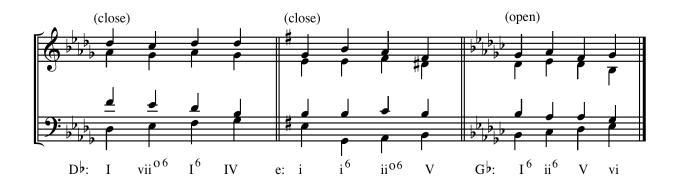
Level Mastery 9.1.



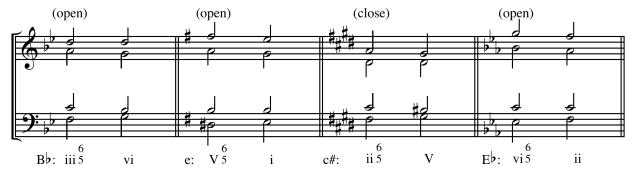
Level Mastery 9.2.

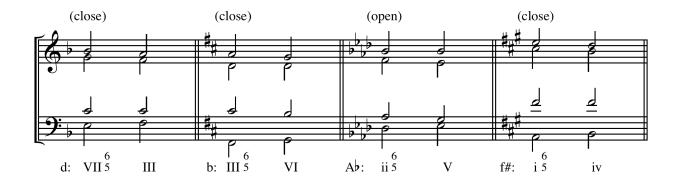


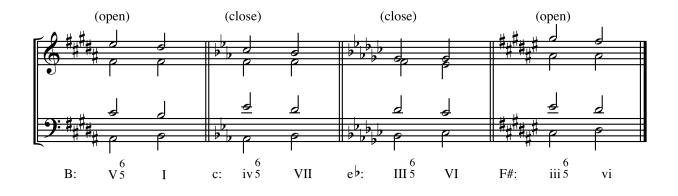




Level Mastery 9.3.

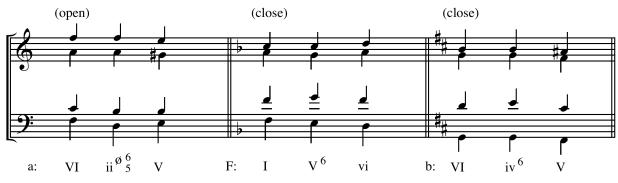


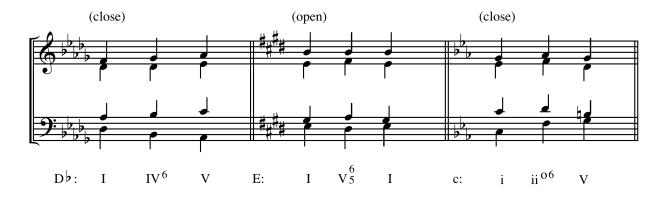


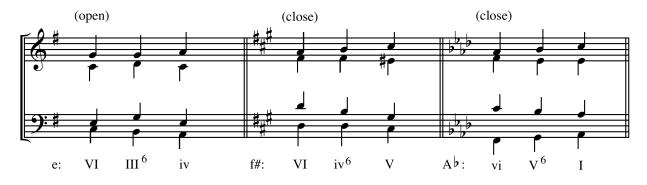


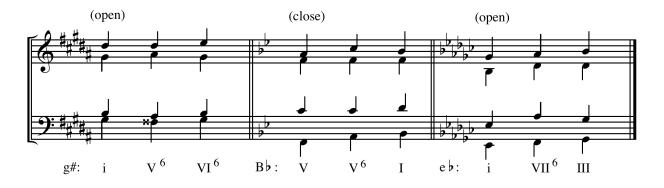
Chapter 9 Self-Test

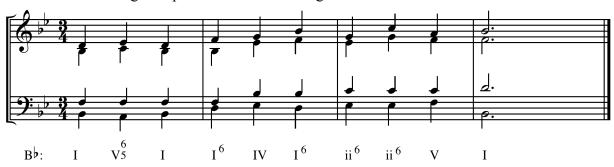
9.1.









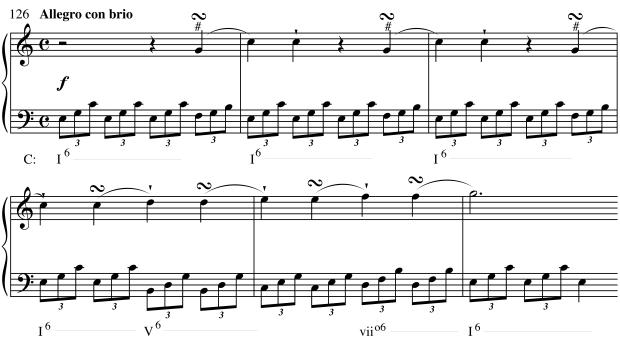


9.2. Various voicings are possible. The following is one realization.

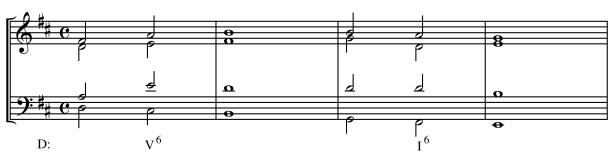
Chapter 9 Apply This!

9.1.

a.



b.



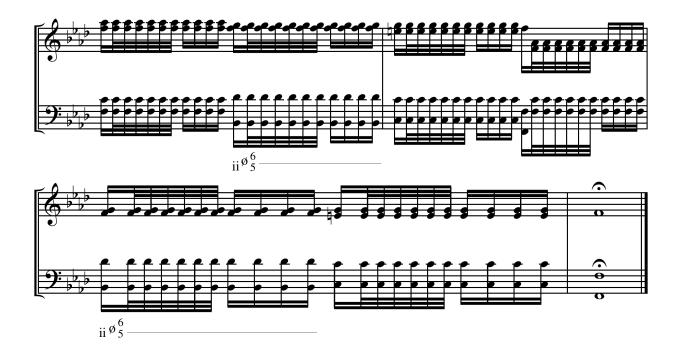






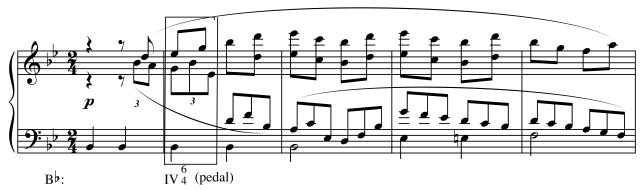


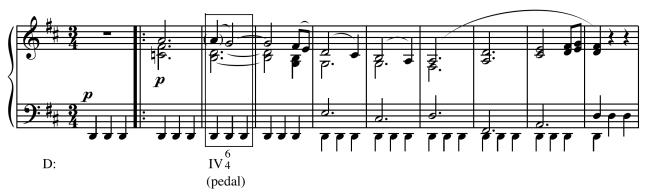
(continued)



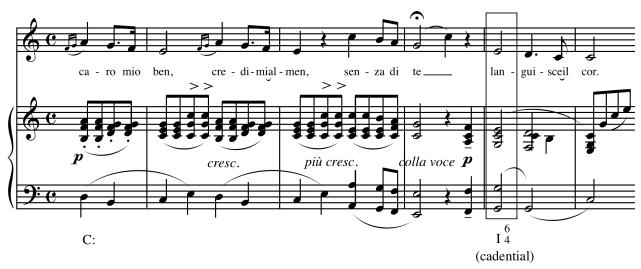
Level Mastery 10.1.

a.



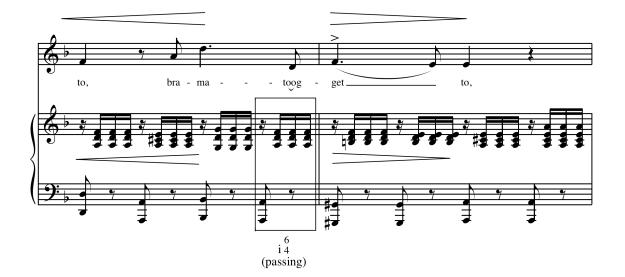


c.



d.





Chapter 10 Self-Test

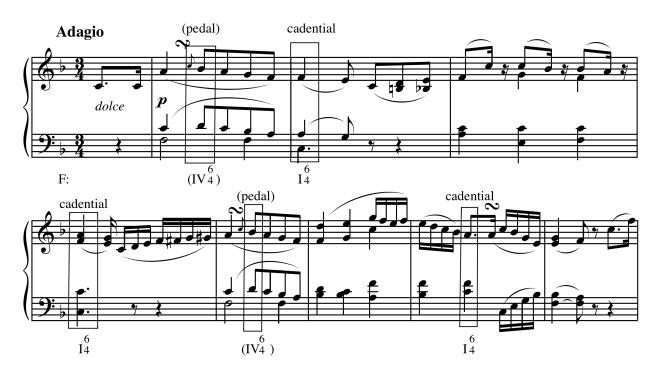
10.1. Various voicings are possible.

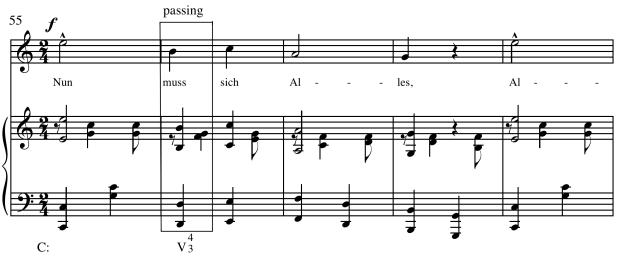


Chapter 10 Apply This!

10.1.

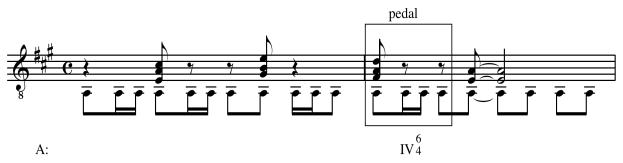
a.

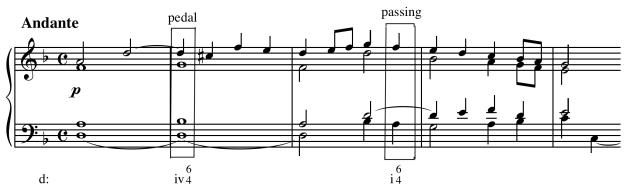






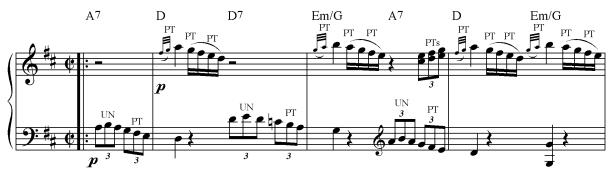
c.

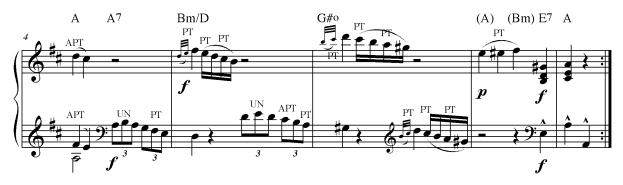


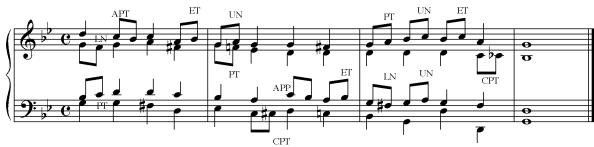


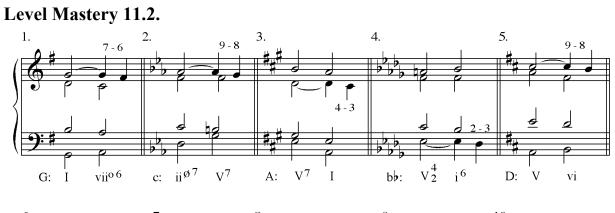
Level Mastery 11.1.

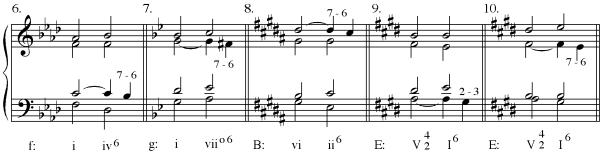
a.

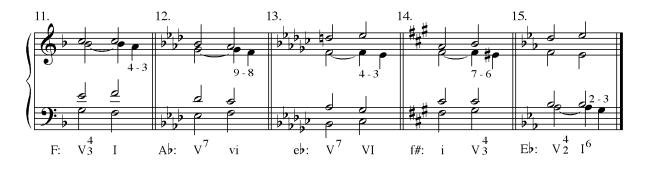






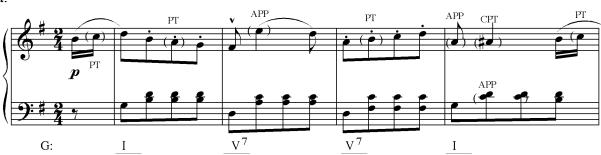


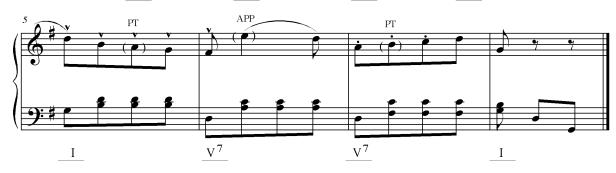


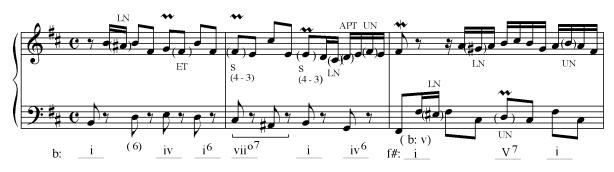


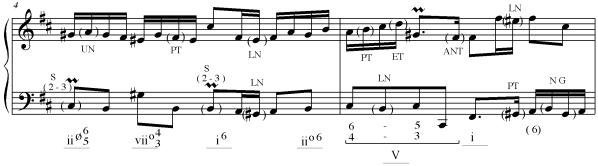
Level Mastery 11.3.

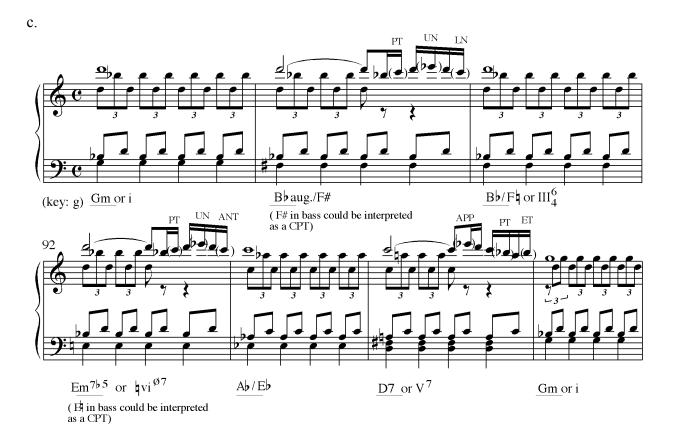
a.

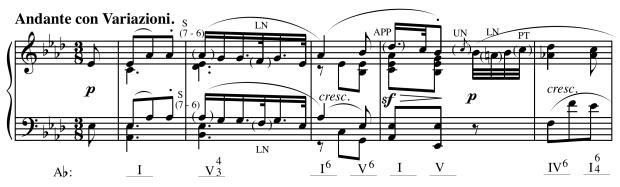


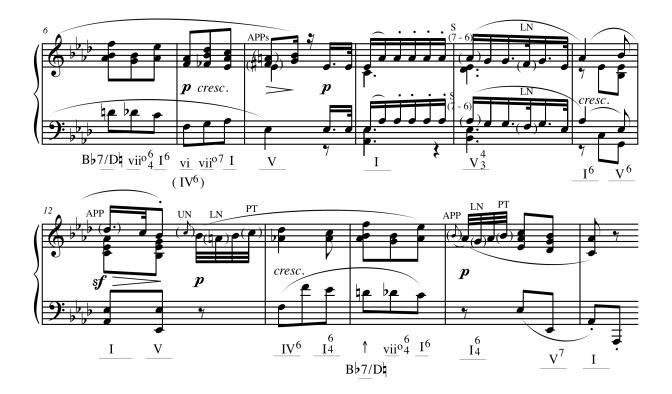






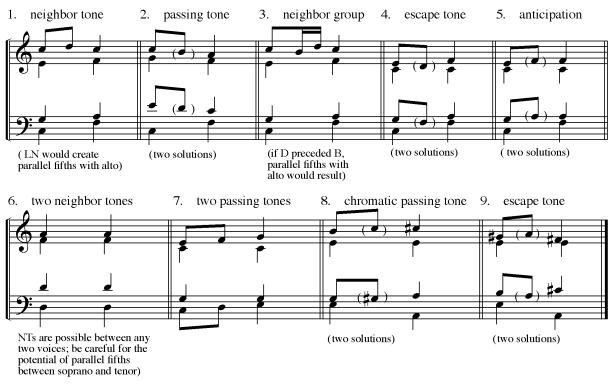




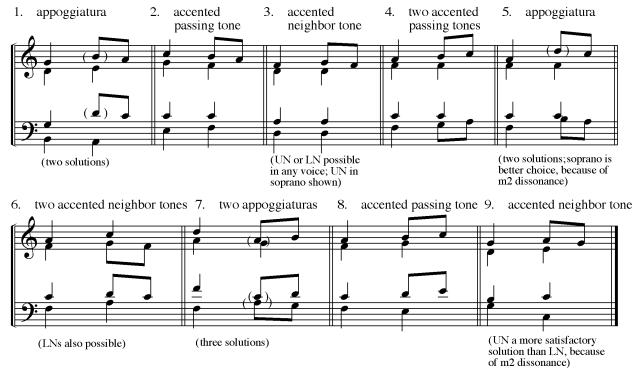


Chapter 11 Self-Test

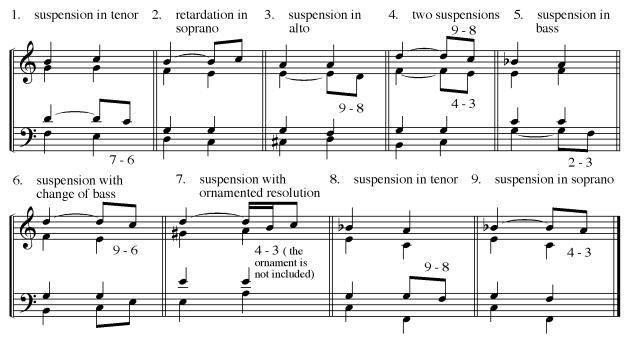
11.1.



11.2.



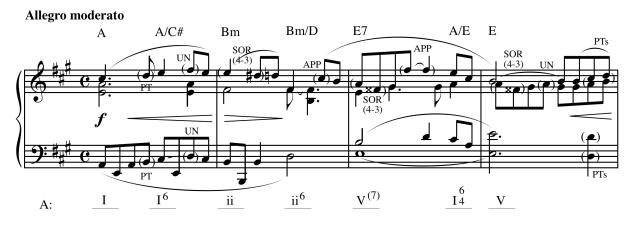
11.3.

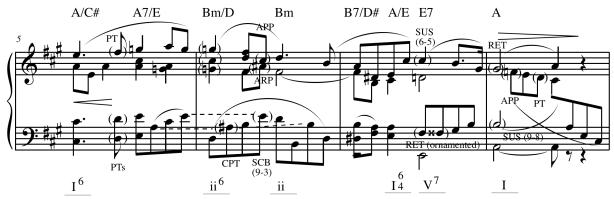


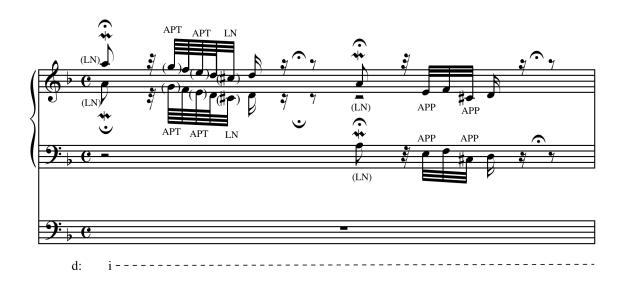
Chapter 11 Apply This!

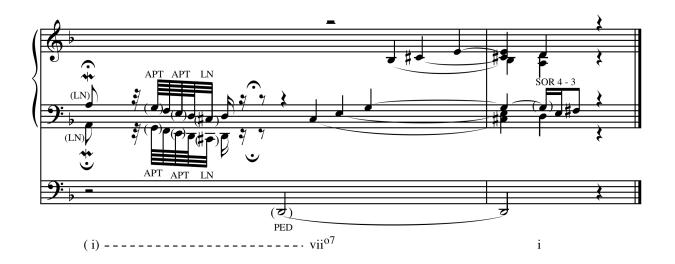
11.1.

a.

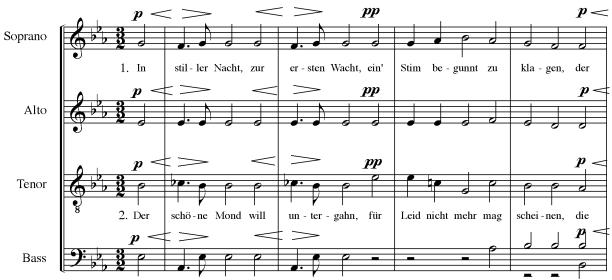


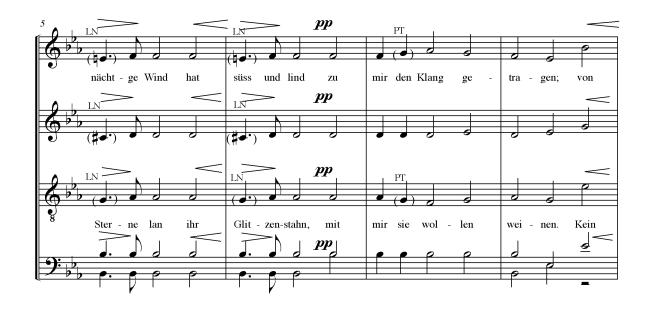


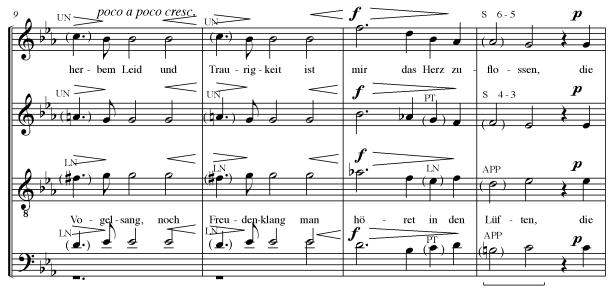




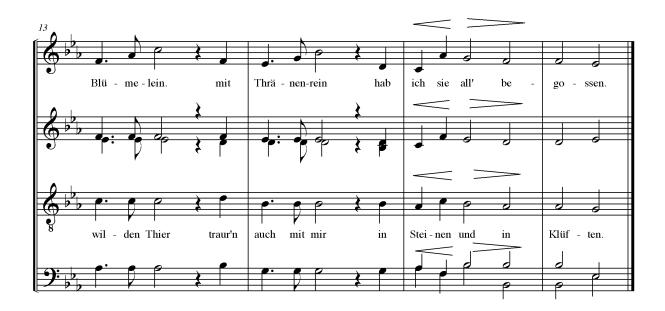
c.



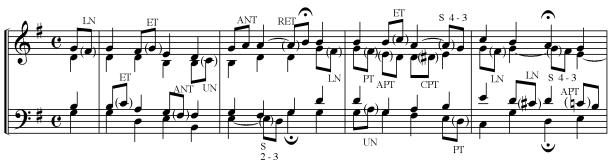


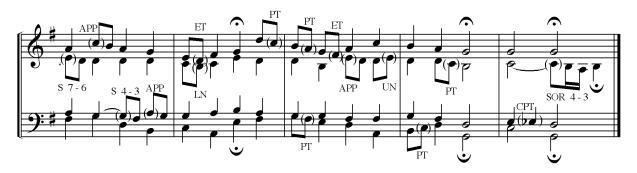


(vi)



11.2.





Level Mastery 12.1.

a.





(Two phrases)

b.





f



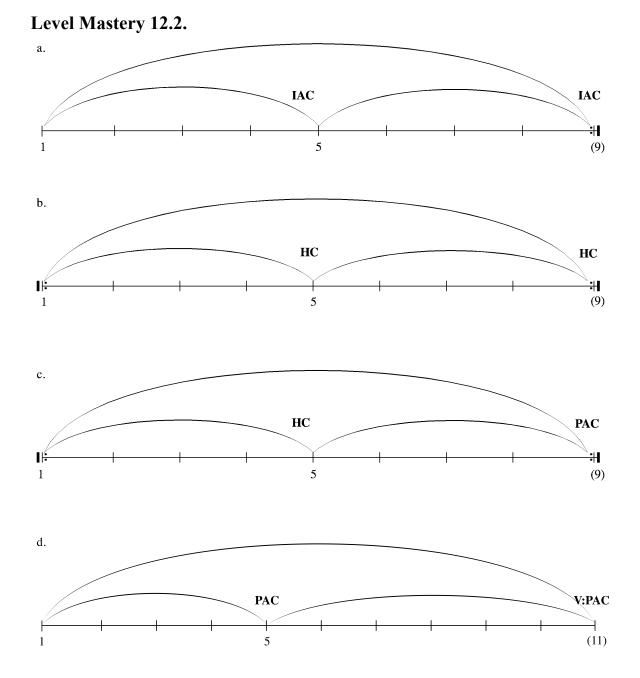


⁽Parallel period)





(two phrases)



The first three examples in Level Mastery 12.1 are very similar in terms of phrase structure; the differences are in the types of cadences found at the end of each phrase, and the presence or absence of repetitions. 12.2d is unusual in that it is asymmetrical; the second phrase may be further subdivided into three two-measure subphrases.

Chapter 12 Self-Test

1. a.



Self-Test 12.1a is an example of a contrasting period, with the antecedent phrase measures 9–12 and the consequent phrase measures 13–16. One might be tempted to analyze measure 14 as a IV:PAC, but the fact that the voice continues through the measure—only momentarily delayed by the fermata—would seem to eliminate it as a true cadence.

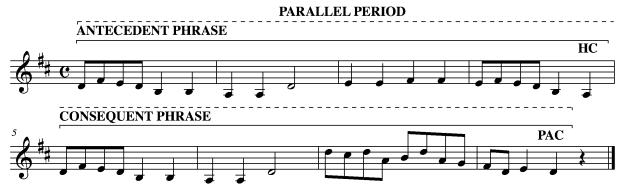
-1



c.

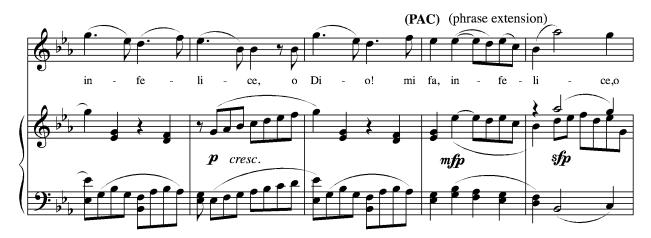


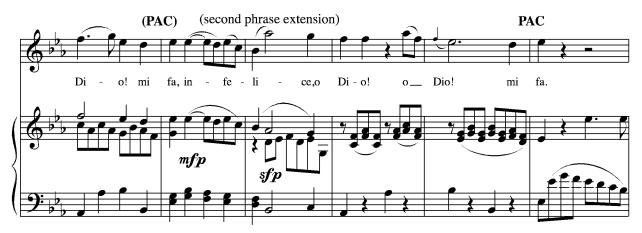
The overall form of the excerpt is *abb*'.



e.







The form is a phrase group, form abcc (where c is the label given to the phrase extensions).

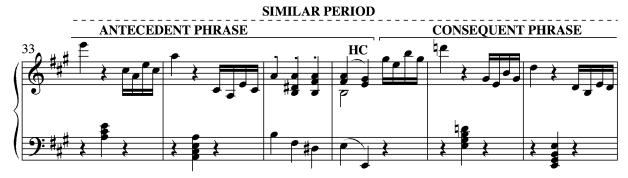
Chapter 12 Apply This!

12.1.









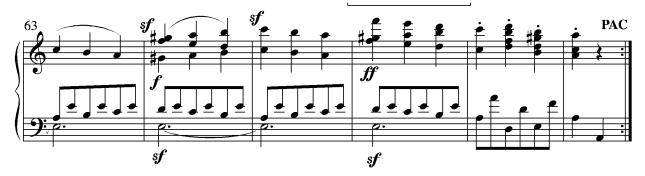


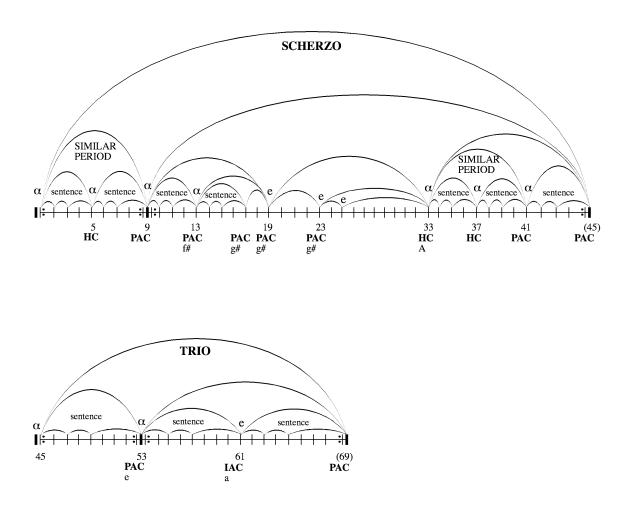


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Compare the arch map above with your own. How closely does your arch map resemble this one in the number of layers and placement of phrases and cadences? Look over the score (and, ideally, listen to a recording of the piece) while looking over the arch map. Do the groupings make sense musically? If you are listening to a recording, does the performer articulate any of the seams between groupings by changes in dynamics or tempo?



Level Mastery 13.1.

Level Mastery 13.2.

a.











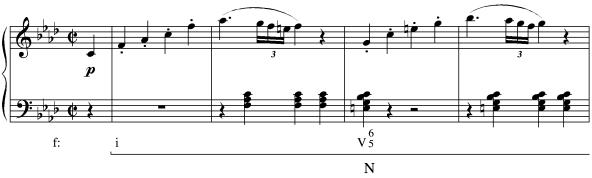
PED)

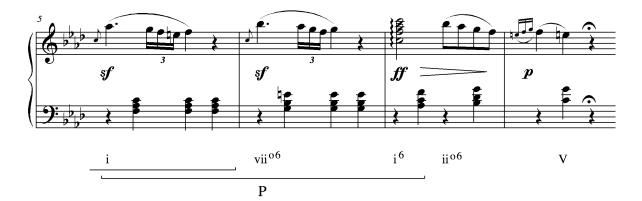


PED

Apply This! 13.1.

a.

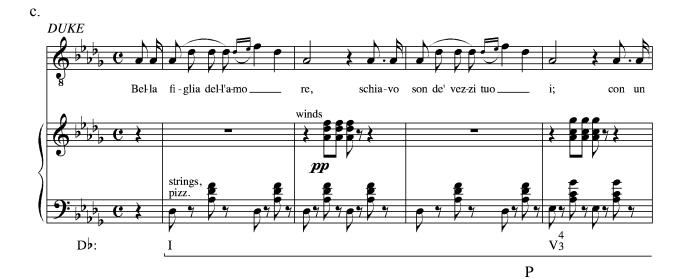


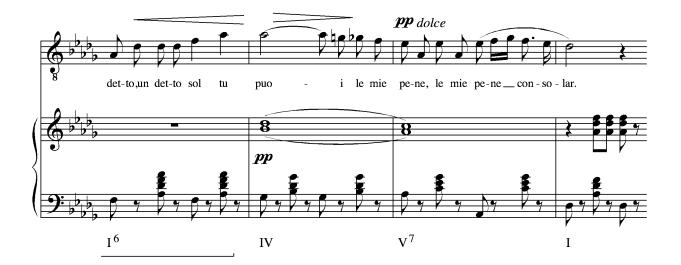


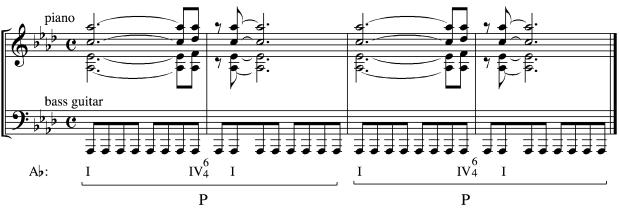




* This harmony will be formally introduced in chapter 15. It is not essential to properly label this chord to recognize the neighboring prolongation.

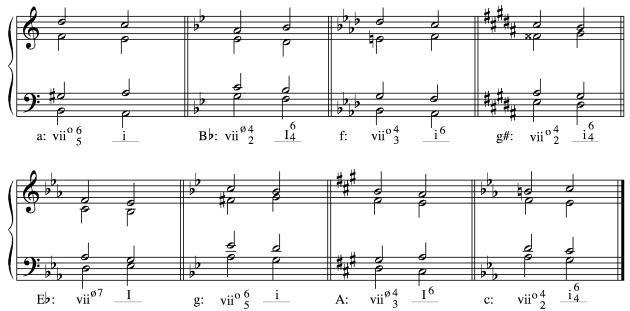




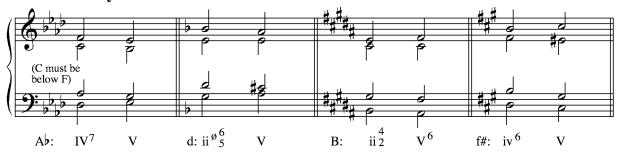


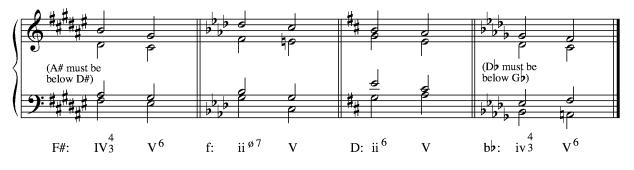
Level Mastery 14.1.

Voicing and spacing may vary.



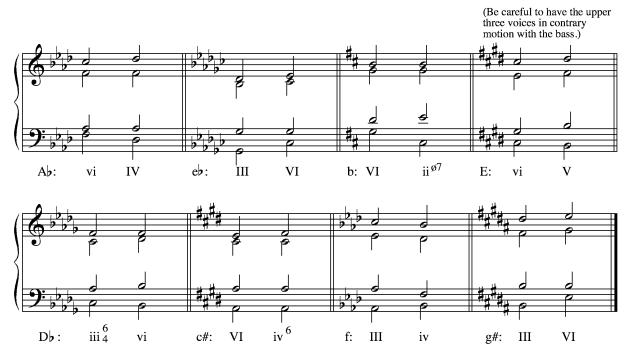
Level Mastery 14.2.



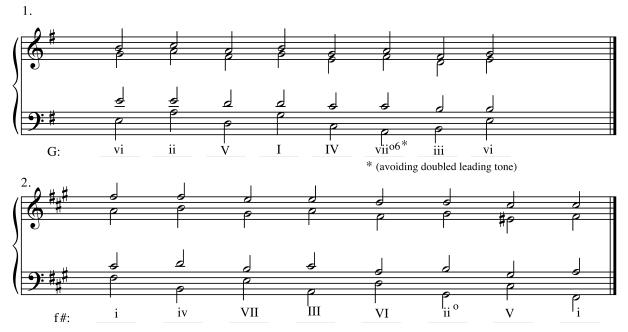


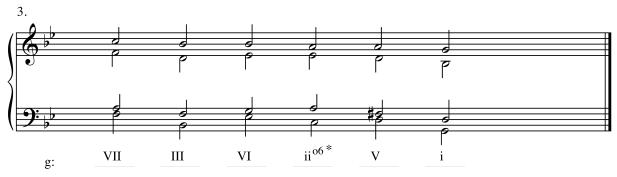
Level Mastery 14.3.

Spacing may vary.



Level Mastery 14.4.

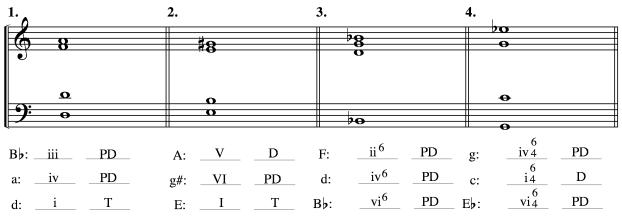


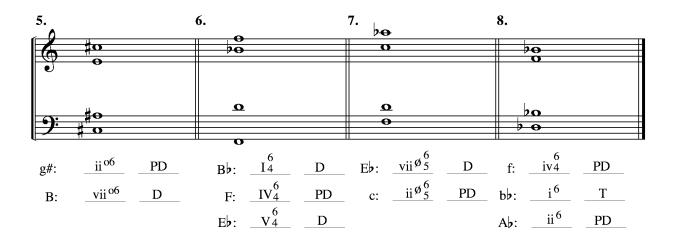


* (inverted to avoid voice leading by augmented intervals)

Chapter 14 Self-Test



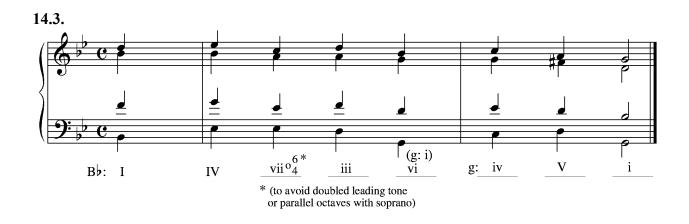






More extensive rewrites are necessary, shown below.

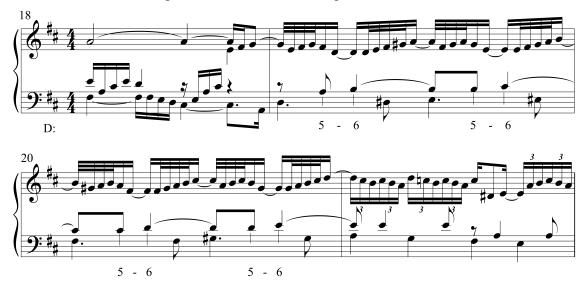




Chapter 14 Apply This!

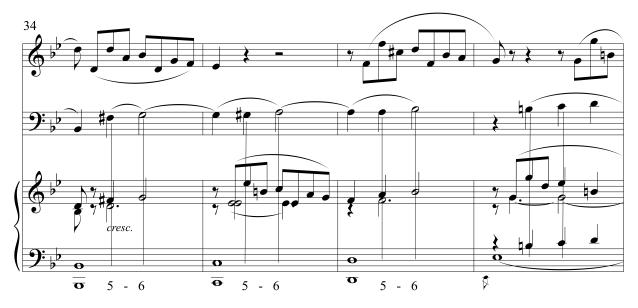
14.1. Analysis.

a. Bach, Allemande from Partita no. 4 in D major, BWV 828, mm. 18–21. This excerpt contains an ascending second 5–6 harmonic sequence.



b. Clara Schumann (1819-1896), Trio in G Minor for Violin, Cello and Piano, Opus 17 (1st mvt.), mm. 30–41a. This excerpt contains an ascending second 5–6 harmonic sequence.

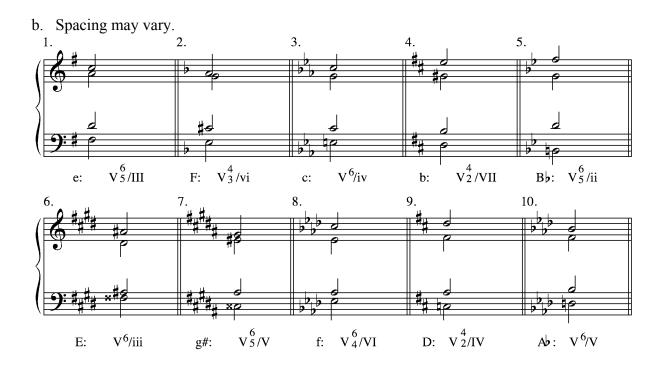






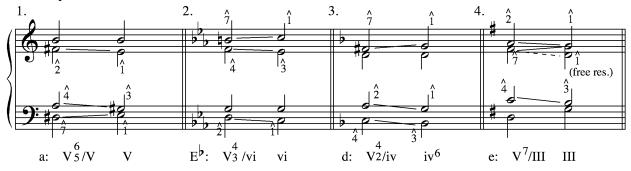
Level Mastery 15.1

a.1. G: V^6/V 6. eb: V/V2. bb: V^7/VI 7. c#: V_5^6/III 3. Ab: V_2^4/vi 8. Db: V^6/vi 4. F: V/iii9. A: V_4^6/ii 5. Bb: V_3^4/iii 10. Eb: V_2^4/iii

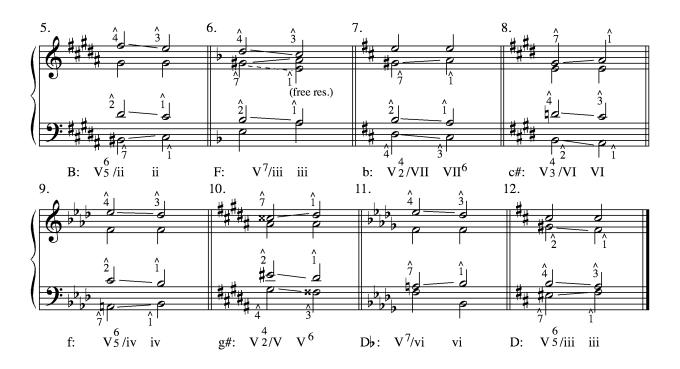


Level Mastery 15.2

Spacing may vary. All tendency-tone labels pertain to the key being tonicized by the secondary dominant chord.

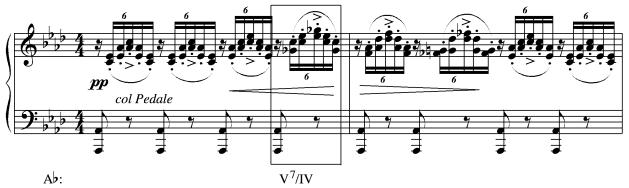


Kevin Holm-Hudson

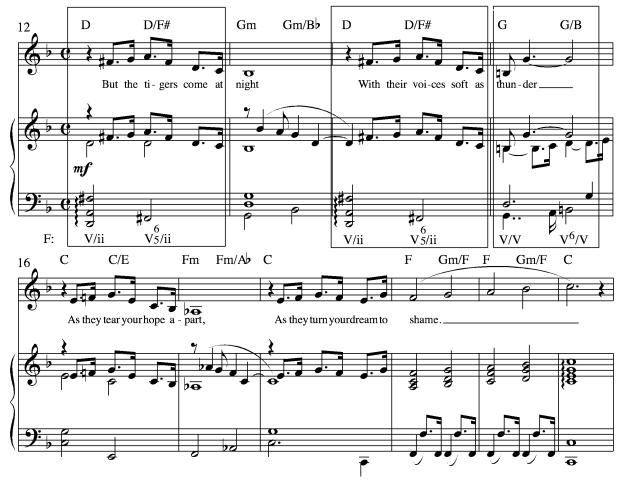


Level Mastery 15.3

a. Schubert, "Ave Maria" Op. 52, no. 6, mm. 1-2.



b. Claude-Michel Schönberg and Herbert Kretzmer, "I Dreamed a Dream" (from *Les Miserables*), mm. 12–21. The key is F major.



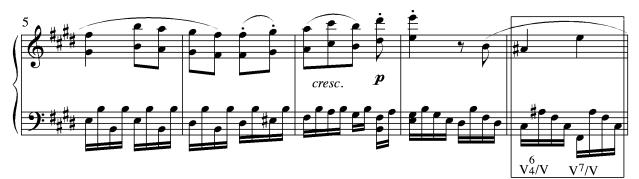
c. Brahms, Rhapsodie Op. 119 no. 4, mm. 1–13.

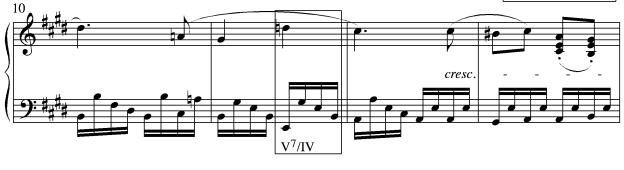




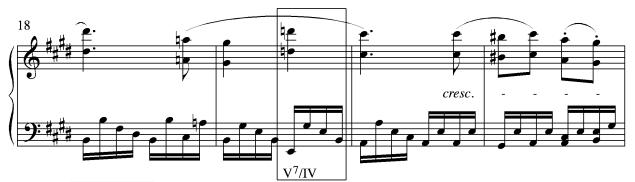
d. Beethoven, Piano Sonata in E major, Op. 90 (2nd mvt.), mm. 1-25a.

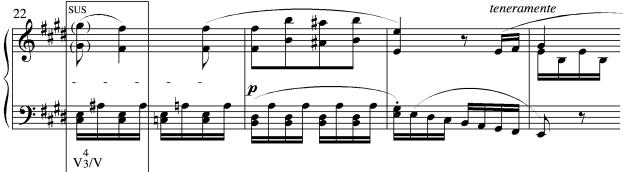






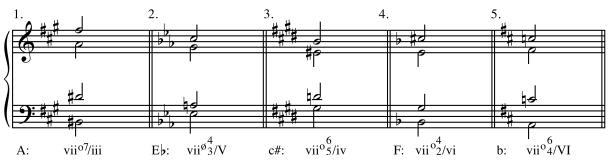


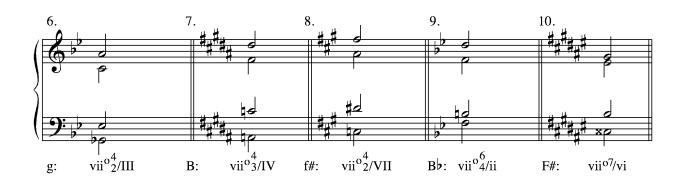




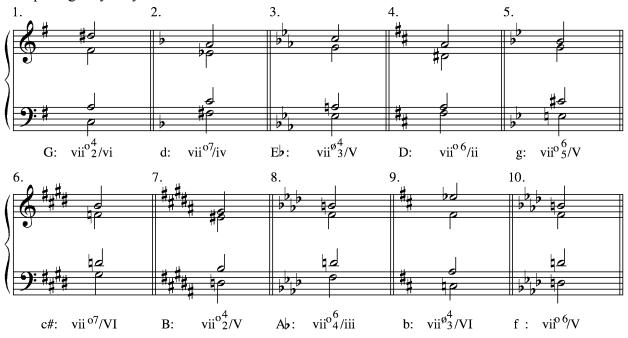
Level Mastery 15.4

a.



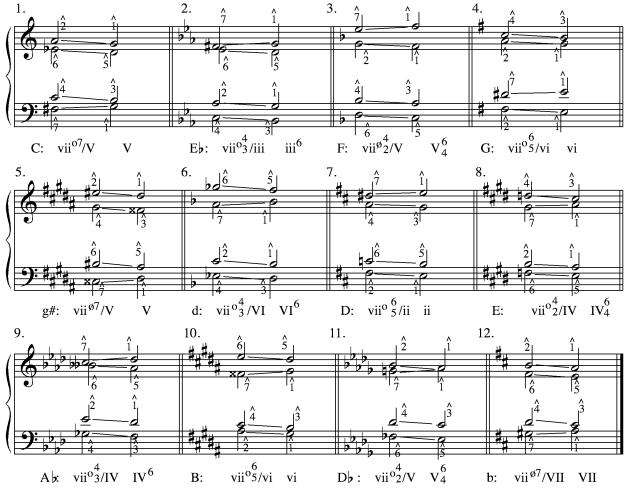


b. Spacing may vary.



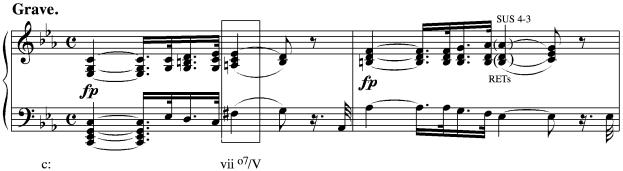
Level Mastery 15.5

Spacing may vary. All tendency-tone labels pertain to the key being tonicized by the secondary diminished (leading tone) chord.



Level Mastery 15.6

a. Beethoven, Piano Sonata no. 8 in C minor, "Pathetique," Op. 13 (1st mvt.), measures 1–2. (As part of your analysis, identify the non-chord tones in measure 2.)

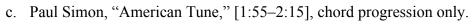


∙): ≴⊔

vii ⁰⁷/ii



b. Schubert, Zwölf Ländler, Op. 171 no. 3, measures 1-8.



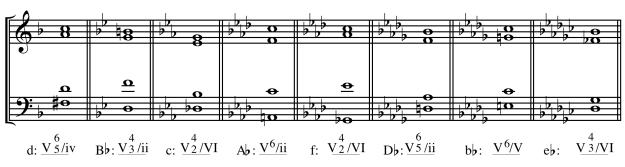


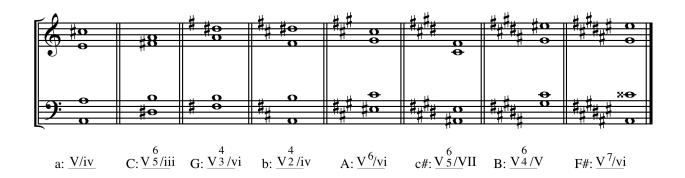
d. Mozart, Piano Sonata in D major, K.311 (2nd mvt.), measures 63–74. (This excerpt contains both secondary dominant and diminished chords.)



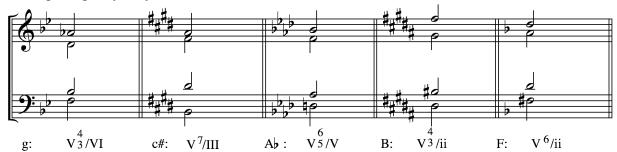
Chapter 15 Self-Test

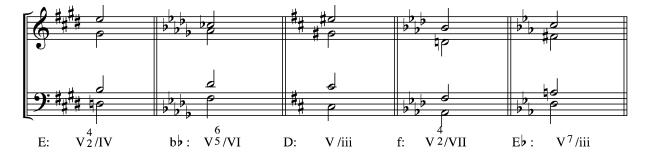
15.1.

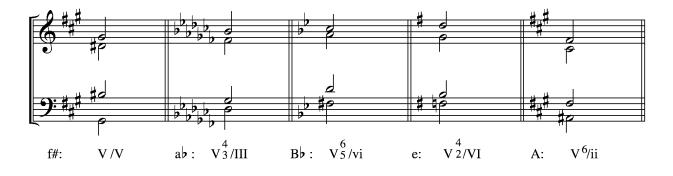


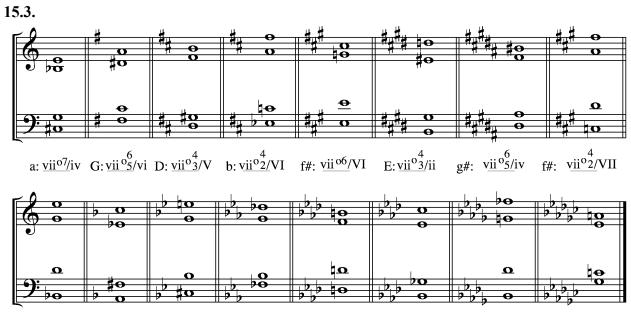


15.2. Spacing may vary.



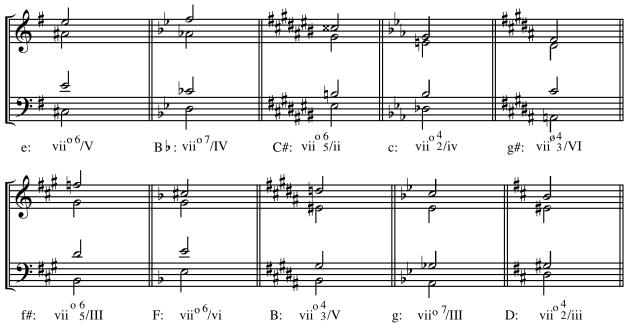




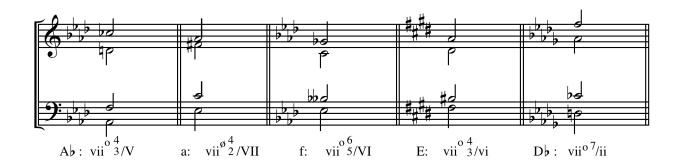


C: $\underline{\text{vii}}^{6} \underline{\text{vii}}^{6} \overline{\text{vii}}^{6} B \flat$: $\underline{\text{vii}}^{6} \overline{\text{vii}}^{7} B \flat$: $\underline{\text{vii}}^{6} \underline{\text{vii}}^{6} \overline{\text{vii}}^{6} \overline{\text{vii}}^{6} \overline{\text{vii}}^{6} \overline{\text{vii}}^{6} \overline{\text{vii}}^{6} D \flat$: $\underline{\text{vii}}^{6} \underline{\text{vii}}^{6} \overline{\text{vii}}^{6} \overline{\text{$

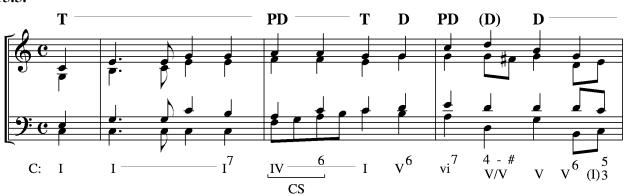
15.4. Spacing may vary.

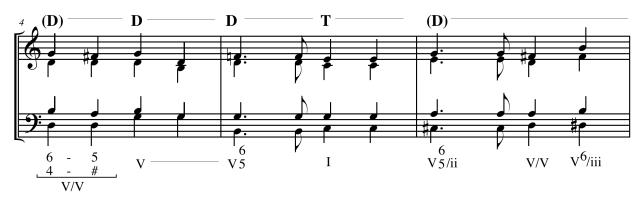


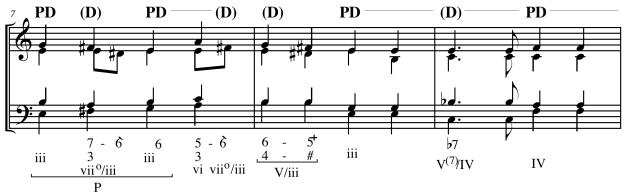
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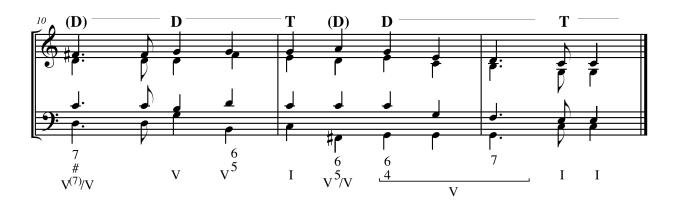


15.5.





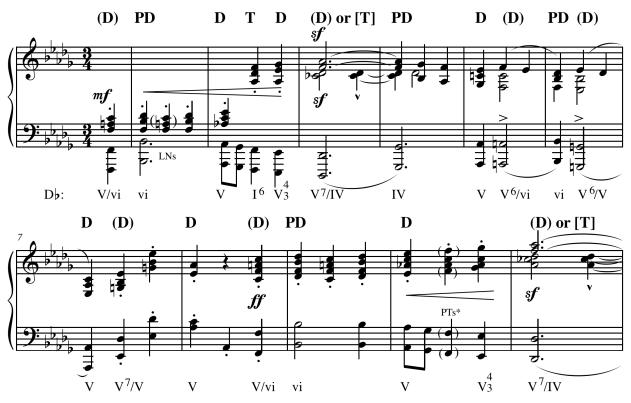


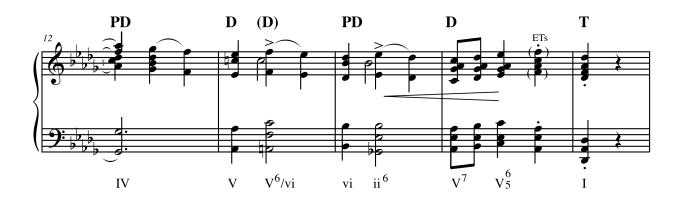


Chapter 15 Apply This!

15.1. Analysis

Certain non-chord tones are shown to clarify the analysis.



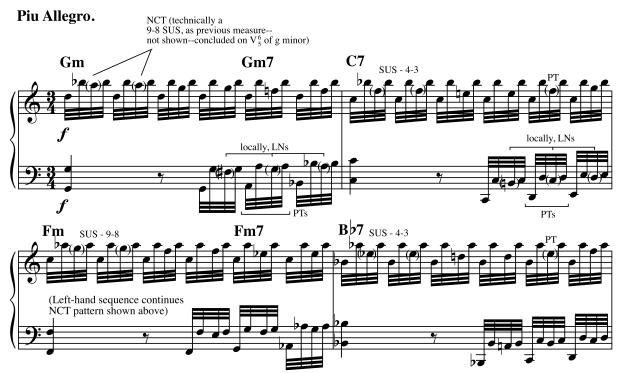


An examination of the harmonic functions shows that, in contrast to a typical Classic era piece (which would often begin with a strong establishment of the tonic), this piece establishes the tonic rather circumspectly. The "tonic" chord in measure 2 actually serves as a passing chord between the two dominant-function chords, and the expected tonic in measure 3 is replaced by a V⁷/IV. Not until measure 16 does a strong tonic chord provide closure.

* While the chord on the second beat of measure 10 suggests a iii chord, the syntax of the progression (with Vs on either side of the chord) suggests that the Fs should be analyzed as passing tones. As we learned in chapter 13, V does not normally progress to iii, nor does iii normally progress to V.

15.2. Analysis.

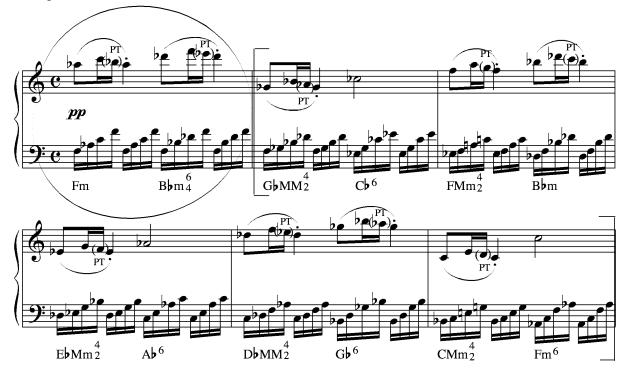
a.



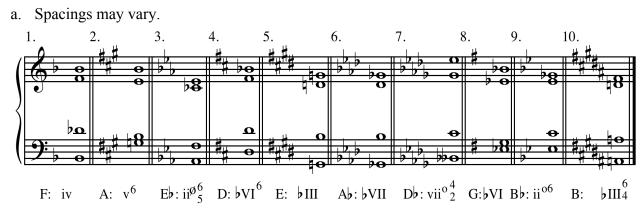




b. Although the passage cannot be confined diatonically to a single key, the sequence more closely resembles a diatonic circle-of-fifths sequence because of the everchanging chord qualities. The first measure does not belong to the circle-of-fifths sequence.

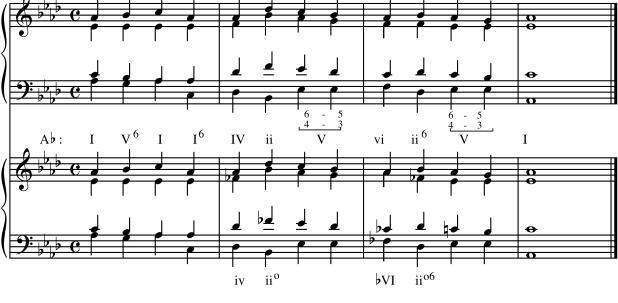


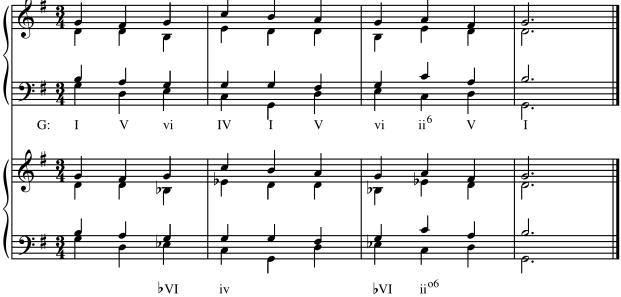
Level Mastery 16.1



The bracketed cadential $\stackrel{6}{4}$ chords below may also be labeled as I_4^6 - V.

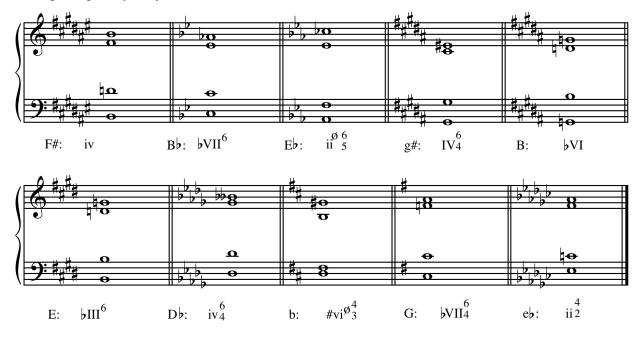
0 θ Ο 6 4 5 3 V⁶ ii ⁶ $\mathbf{I}^{\mathbf{6}}$ Aþ: ii vi I IV V I I V 0 e O ii⁰⁶ ii⁰ ۶VI iv





Chapter 16 Self-Test

16.1. Spacings may vary.

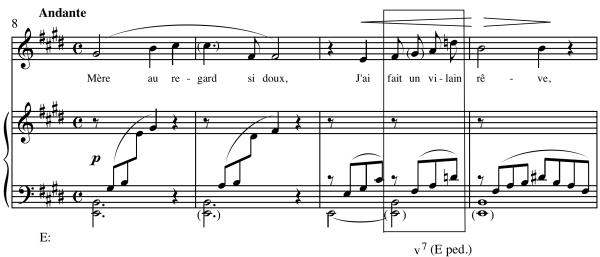


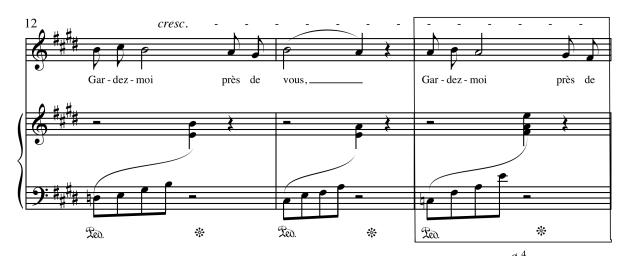
Chapter 16 Apply This!

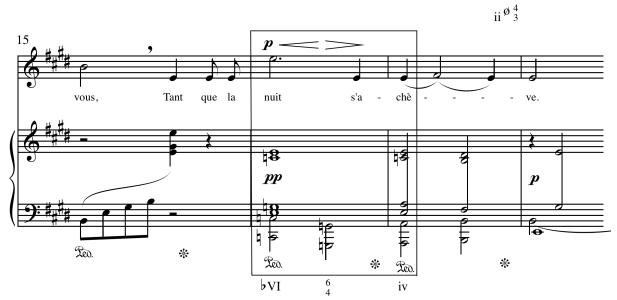
16.1.



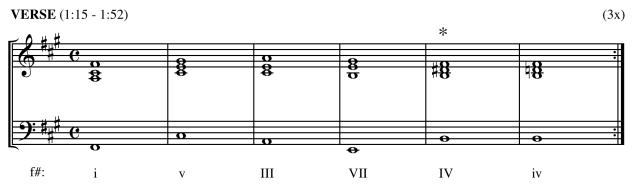
b.

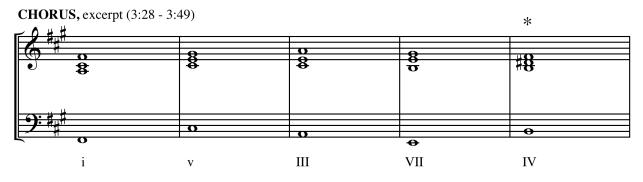


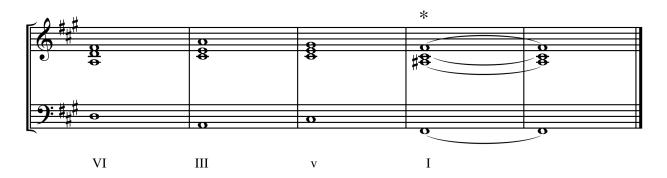












Level Mastery 17.1

- 1. 1. iv^6
 - 2. iv
 - 3. III⁶
 - 4. VI
 - 5. ii

- 2. a. d: i F: vi C: vi⁶ b. e: iv⁶ g: i c: d: iv G: ii d:
 - C: vi

Level Mastery 17.2

- 1. 1. V
 - 2. ii
 - iii 3.

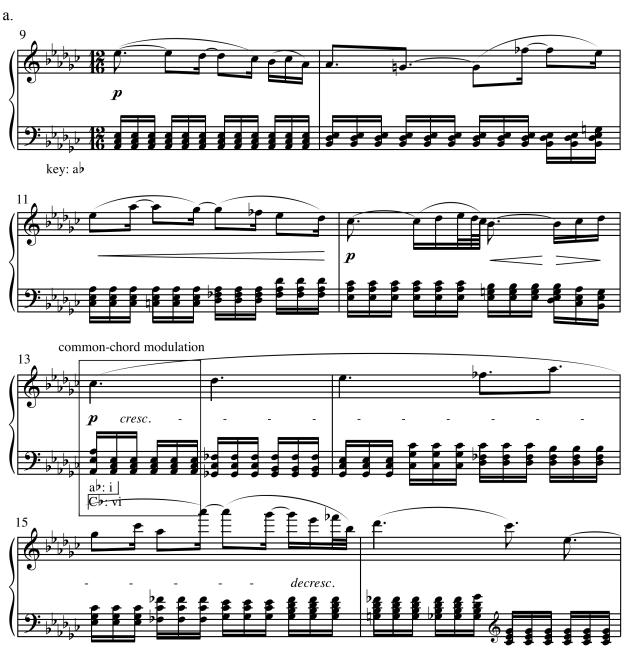
Chapter 17 Self-Test

17.1. c

17.2. d

Chapter 17 Apply This!





b.







c. (measures 35–40 only shown)



۶VI

a: •

17.2. Various answers are possible.

17.3. Various answers are possible.

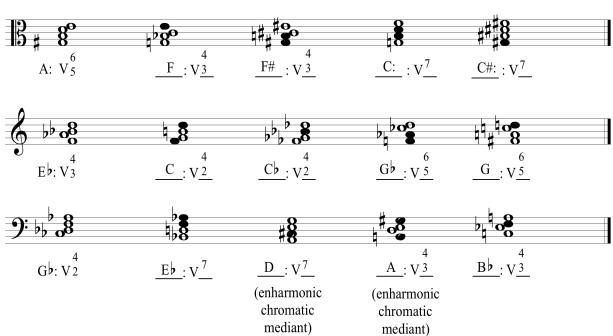
Chapter 18 Self-Test

18.1.

a.	Eb major <u>C major</u>	<u>Cb major</u>	<u>Gb major</u>	<u>G major</u>
	common tone: <u>G</u>	Eþ	Bþ	G
b.	c# minor <u>a# minor</u>	<u>a minor</u>	<u>e minor</u>	<u>f minor</u> *
	common tone:	E	E	<u>G</u> # / Ab
c.	Ab minor <u>f minor</u>	<u>e minor</u> *	<u>b minor</u> *	<u>c minor</u>
	common tone: Ab	Cþ/B	Cþ/B	Еþ
* _				

*enharmonically a chromatic mediant relationship

18.2.



18.3. Enharmonic common-tone modulation (the Cb in the iv of Eb major is enharmonically equivalent to the B in the V of C major).

Chapter 18 Apply This!

18.1.

- a. Common tone (G between measures 16 and 17). Although the modulation occurs between phrases—a characteristic of direct modulation—G serves to connect the two keys.
- b. Sequential.
- **18.2.** Various answers are possible.
- **18.3.** Various answers are possible.

Level Mastery 19.1

a. Real answer:



b. Real answer:



c. Tonal answer (fifth scale degree prominent at beginning of subject):



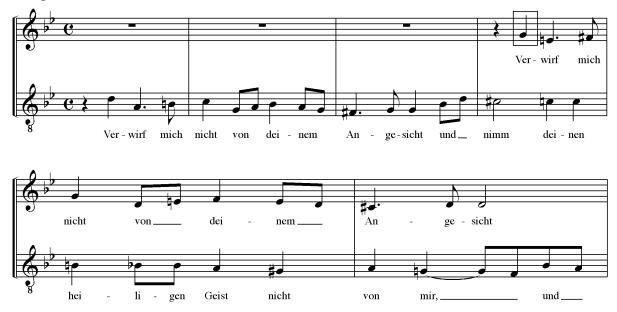
d. Tonal answer (fifth scale degree prominent at beginning of subject):



Chapter 19 Self-Test

19.1.

- a. Real answer.
- b. Tonal answer. This is because the subject begins with a prominent dominant scale degree.



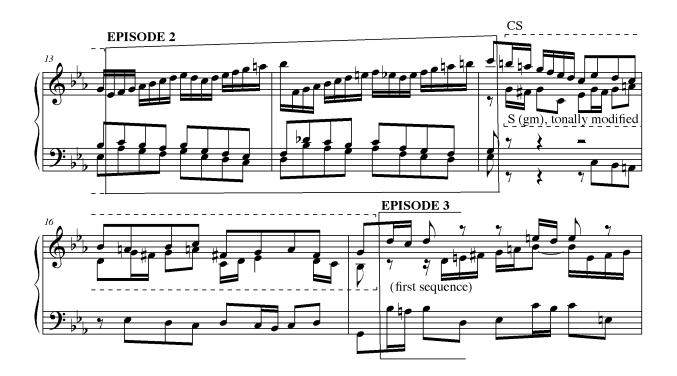
c. Tonal answer; the subject begins in the tonic, but implies a movement toward the dominant by its end with the scalar descent to E. As a result, only the repeated Es in the answer are at the "real" transposition level of the dominant—the rest of the answer is a step lower (a fourth above the subject rather than a fifth).

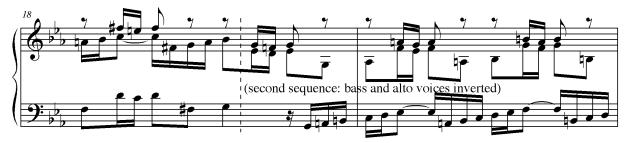
Chapter 19 Apply This!

19.1.

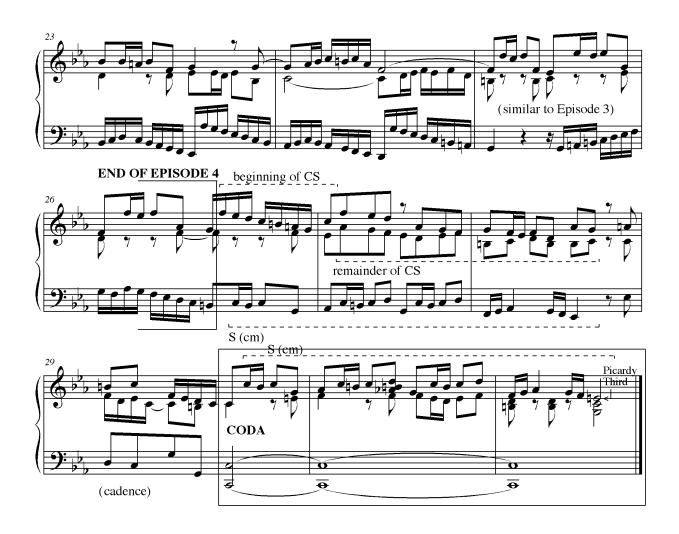
a.











b.

EXPOSITION









19.2.



2. Real answer:



3. Real answer:



4. Real answer:



19.3. Various answers are possible.

Level Mastery 20.1.

a. Bach, "Courante" from Partita no. 5 in G major, BWV 829. This is an example of continuous simple, balanced binary form. The key areas visited are all closely related to the tonic, typical of a Baroque-period work.

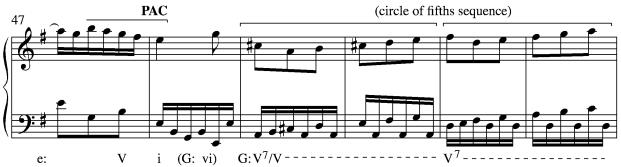














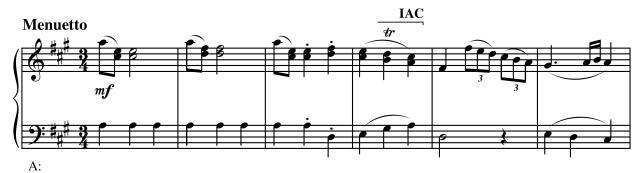
b. Brahms, Waltz Op. 39, no. 5. Although the cadence at measures 7–8 could be analyzed as a PAC in B major, the entire piece can be analyzed in E major, with an extended V in measures 9–11 (and a dominant pedal lasting to measure 16) and an extended tonicization of IV (A major) in measures 17–20. This is an example of continuous rounded binary form (the thematic material returns at measure 13).





Level Mastery 20.2

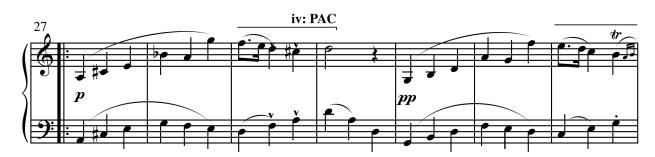
Haydn, Piano Sonata no. 5 in A Major, Hob. XVI/5, 2nd mvt.







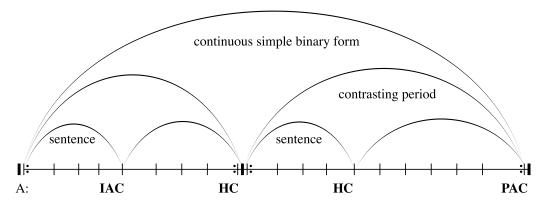


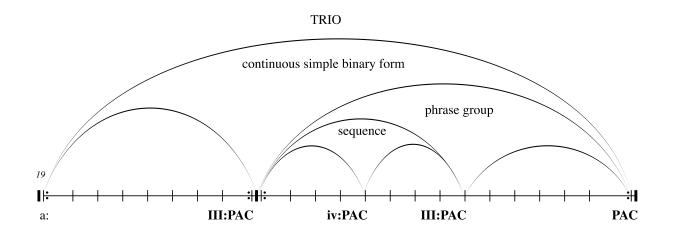




Menuetto da capo

MENUETTO





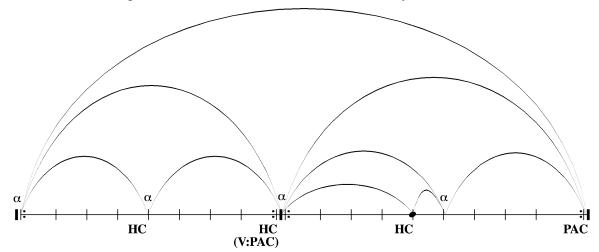
Chapter 20 Self-Test

- **20.1.** A piece or excerpt in sectional binary form ends with an authentic cadence in the tonic at the end of the first of the two repeated sections that make up the binary form. If the first section's cadence is a half cadence or if the first section has modulated to another key, the piece or excerpt is in continuous binary form.
- **20.2.** A piece or excerpt in rounded binary form has a substantial return, in the second of the two repeated sections that make up the binary form, of the *beginning* of the thematic material found in the first section. If there is no return of opening material, the piece or excerpt is in simple binary form. Balanced binary form is determined by looking at the *ends* of the first and second repeated sections; if the endings are the same (allowing for transposition, if the piece is in continuous binary form), the form is balanced.

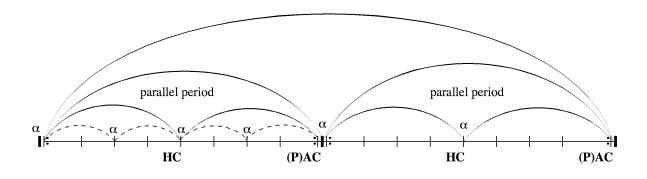
Chapter 20 Apply This!

20.1. Analysis

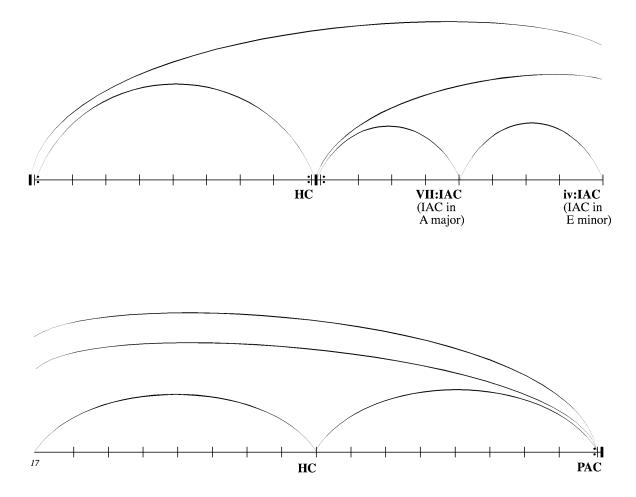
a. Mozart, Piano Sonata no. 6 in D Major, K.284 (3rd mvt.), measures 1–17. This is an example of continuous, rounded, balanced binary form.



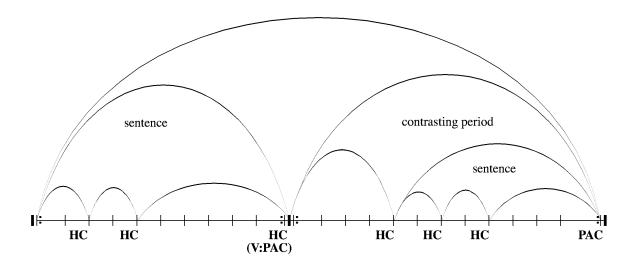
b. Traditional American tune, "Soldier's Joy." This is an example of sectional, simple, balanced binary form.



c. Bach, Double from Partita no. 1 in B minor for solo violin, BWV 1002. This is an example of continuous, simple binary form.

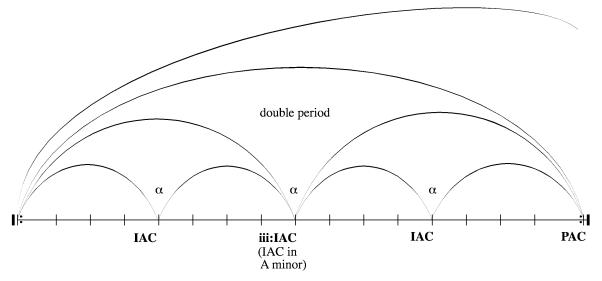


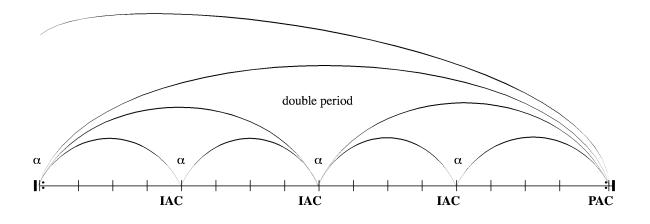
d. Haydn, String Quartet in G Minor Op. 74, no. 3 (2nd mvt.), measures 1–22. This excerpt is an example of continuous, rounded, balanced binary form.



e. Scott Joplin, "Solace," measures 53–84.

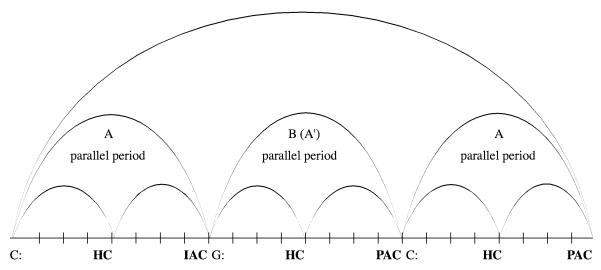
This excerpt is an example of sectional, simple binary form.



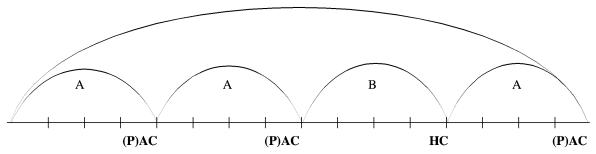


20.2. Analysis

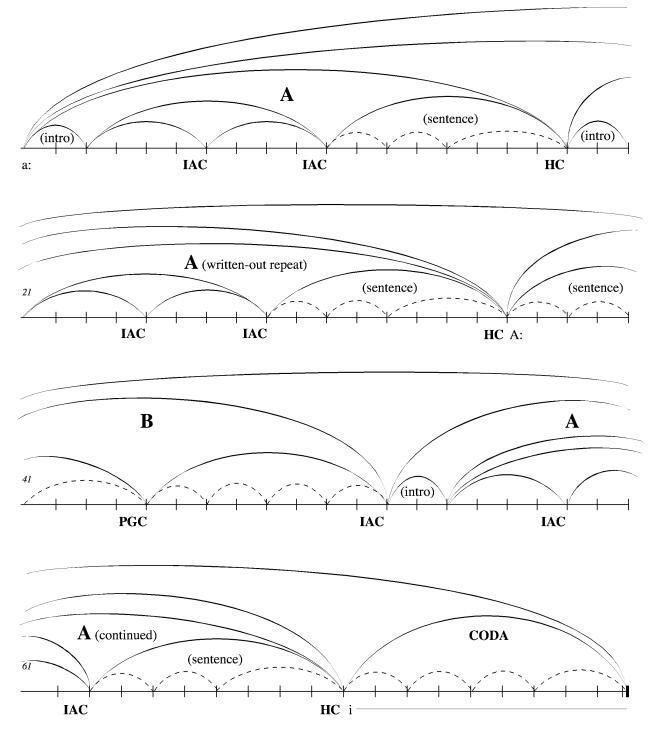
a. Schumann, "Humming Song," no. 3 from *Album for the Young*, Op. 68. In this example contrast is provided mainly by change of key; a third voice also enters for the B section (mm. 9–16), sustaining the implied bass line provided by contour accents in measures 1–8.



b. Traditional Welsh lullaby, "All Through the Night." This example is in song form (AABA).

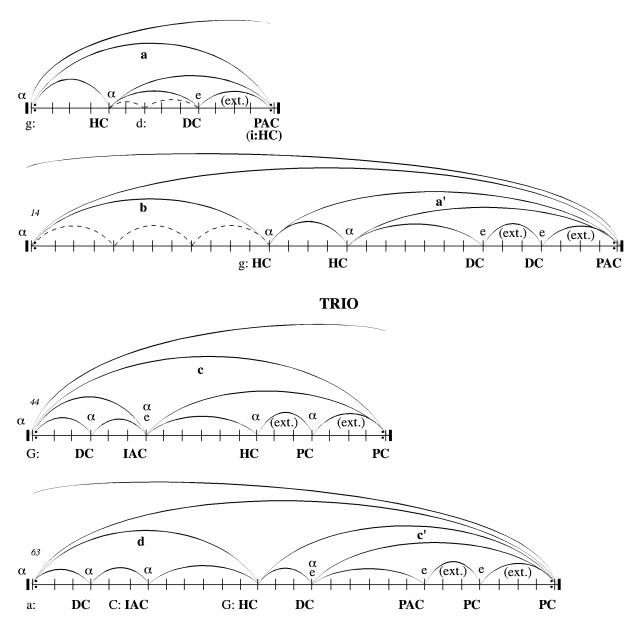


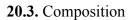
c. Grieg, "Waltz," no. 2 from *Lyrical Pieces*, Op. 12. This is an example of song form (AABA), with a coda.



d. Mozart, String Quintet no. 4 in G minor, K.516 (2nd mvt.).
This is an example of compound ternary form. The reprise of the Menuetto is not shown on the arch map. Both the Menuetto and Trio sections are in continuous, balanced rounded binary form.







Various solutions are possible.

20.4. Composition

Various solutions are possible.

20.5. Improvisation

Various solutions are possible.

Level Mastery 21.1.

1. The end of the exposition: Measure 49.

The beginning of the recapitulation: Measure 80.

The beginning of the secondary theme or secondary tonal area: Measure 22, 3rd beat. This movement is not monothematic.

The beginning and ending of the transition between the primary and secondary theme, in both the exposition and recapitulation (how does the composer handle the problem of "transitioning" in the recapitulation when there is no need to modulate?)

The first transition lasts from measure 9 to measure 22 (14 measures). It begins with material from the opening theme, suggesting a large parallel period is about to unfold; instead, the music briefly tonicizes F major and d minor (measures 12–14) before arriving on an extended half cadence in c minor (measures 16–22). Given that the second tonal area is actually C major, this can be regarded as mode mixture.

The second transition lasts from measure 88 to measure 103 (16 measures). It begins with the opening theme material in the bass, initiating a descending harmonic sequence with suspensions in the highest voice of the accompaniment. The approach to the half cadence and caesura is extended by two bars (measures 95–96).

The caesura, if there is one: Measure 22.

2. The development section can be broken down as follows:

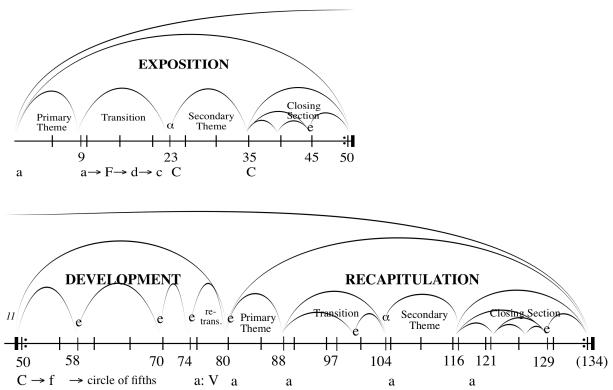
Measures 50–57

C major (mm. 50–52) \rightarrow tonicization of f minor (chromatic median key relation) (mm. 53–56); V⁷ of F becomes GER⁺⁶ of e minor (closely related key) through enharmonic reinterpretation. Primary theme is developed in mm. 50–53; mm 54–55 use the arcing arpeggio figure from the transition (see m. 13).

Measures 58–69	Here over a circle-of-fifths harmonic sequence, consisting of B major (the V of e minor), mm. 58–61; E major (the V of a minor), mm. 62–65; and A major (the V of d minor), mm. 66–69.	The repeated dotted eighth–sixteenth figure of the transition (see mm. 16 and 18) is used here.
Measures 70–73	A new descending harmonic sequence.	This passage is characterized by the "trill and turn" figure first heard in mm. 42–43 of the exposition.
Measures 74–79	A retransition, using a pedal prolongation of E major (the V of a minor).	The "trill and turn" figure continues here, against an accompaniment of rapid arpeggios.

3. There is no coda. There is no introduction.





Chapter 21 Self-Test

21.1.

Sonata form pertains to a *single* movement, extended from rounded binary form to comprise a repeated exposition and a (sometimes repeated) development and recapitulation. Sonata form usually follows a tonal plan wherein the exposition consists of (usually) two contrasting themes, the first in the tonic and the second in a closely related key (usually the dominant if the tonic is major or relative major if the tonic is minor). The development section is usually harmonically and thematically unstable, developing material from the exposition. The recapitulation returns to the primary and secondary themes, this time both in the tonic.

The **form of a sonata**, on the other hand, refers to the plan of a *multi-movement* work, as follows:

- 1. An allegro or fast first movement (usually in sonata form), in the tonic;
- 2. A slower or andante second movement that might be in ternary form or rondo

form, in a closely related key (often the dominant);

- 3. An allegro third movement, usually in compound ternary form, often in the tonic or in another closely related key;
- 4. An allegro or presto (very fast) movement that might be in rondo form or sonata form, in the tonic.

21.2.

- a. Exposition Second tonal area (tonally stable, but in the dominant of the tonic revealed by the key signature).
- b. Development section (tonally unstable—sequences, etc.)
- c. Closing section (in the dominant of the tonic revealed by the key signature; also characterized by repetition of $i_4^6 V i$ cadential gestures).
- d. Exposition First tonal area (harmonically stable; in tonic).
- e. Transition (passage begins in tonic and modulates to dominant by the end).

Chapter 21 Apply This!

21.1.

EXPOSITION

- 1. c minor.
- Measure 19. Although the change of texture at measure 9 implies the beginning of a transition, this passage is substantially replicated in the recapitulation. Comparing measure 19 to measure 118, however, the two gestures have very different outcomes.
- 3. Measure 36. It is returned to in the tonic at measure 131.
- 4. Eb major, the relative major of c minor. This is an expected tonal plan for a minor-key sonata exposition.
- 5. Measure 67 is more cadential in nature, and thus better fits a closing section. Measure 59 begins a longer phrase that drives toward the cadence at measure 63, with a phrase elision to a repetition of melodic material an octave higher. The drive of this passage suggests a culmination of the secondary theme, not the beginning of a new section.
- 6. No.

DEVELOPMENT

- 7. Measures 75–76 replicate the opening gesture of measures 1–2. Here, however, the gesture is answered by a different outcome bringing us to f minor.
- 8. f minor. The thematic material comes from the transition (measures 23–26).

9. 83-84: f: i
85-86:
$$V^7/ii$$

87-88: ii
91-92: c: i⁶
95: $vii_{5}^{o_6}$
96-97: $vii_{5}^{o_1}$
98-99: V_5^6 (or $vii_{5}^{o_7} \rightarrow V_5^6$)

RECAPITULATION

- Comparing measures 118–130 with its exposition counterpart at measures 19–35, we see that measures 118–120 present the opening arpeggio motive canonically; measures 23–26 are also replaced by different transitional material at measures 121–125.
- 11. Measures 168–185 function as a coda to the movement.

Level Mastery 22.1.

The refrain is first heard measures 1-22; it is in continuous simple binary form, concluding with a perfect authentic cadence.

The movement is an example of a five part rondo (ABA'CA'); subsequent refrains after the first do not include the repeats and have more drastic dynamic changes. The first episode (B) is confined to closely related keys: a minor, e minor, and G major. The second episode (C) begins with an abrupt change to the parallel minor (c minor) and its closely related keys (g minor and Eb major)—none of which, however, are closely related to the tonic.

There are no transitions from refrains to episodes, although there is a phrase elision at measures 92–93 between the second refrain and second episode. Both episodes have retransitions prolonging the dominant, G major (V of C): The retransition from the B episode is found at measures 63–71 (after a "false retransition" at measures 52–56), and the retransition from the C episode occurs at measures 115–124. There is also a coda (measures 147–170). Each of the episodes uses rhythmic (and sometimes melodic) motives from the refrain, so it would be justifiable to describe this piece as a monothematic rondo.

А	mm. 1–22	C major
В	mm. 23–71	: a minor → e minor : C major → G major (AAB form);

		retransition, mm. 63–71
A'	mm. 72–93	C major (no repeats); elision into C episode mm. 92–93
С	mm. 93–124	c minor \rightarrow g minor \rightarrow Eb major; ascending sequence;
		retransition, mm. 115–124
A'	mm. 125–146	C major (no repeats)
Coda	mm. 147–170	C major (cadence on V^7 of F at measure 156 suggests
		another harmonic departure)

Chapter 22 Self-Test

22.1.

The French *rondeau* prefigures the Classic rondo in its use of a recurring refrain, always found in the tonic. It differs from the later rondo in its open-ended number of episode sections.

22.2.

A refrain is tonally self-contained in that it normally ends on a perfect authentic cadence in the tonic. It is often in some type of binary form, or at least a period of some type.

22.3.

A *transition* occurs from a *refrain* to an *episode*; it often begins in the tonic, and almost always modulates, often ending on a half cadence in the key of the episode. A *retransition* occurs from an *episode* to a *refrain*; it often serves to prepare the listener for the return of the refrain by prolonging the dominant.

22.4.

A sonata-rondo is a type of seven-part rondo (ABACAB'A). It resembles sonata form in that the second episode (C) resembles a development section by developing previously heard material, often in a harmonically unstable (frequently modulating) context. The B' in the above form is in the tonic, and in this respect it resembles the return of the secondary theme in a sonata-form recapitulation. Sonata-rondo differs from sonata form primarily in that the first AB is not repeated (or, only A is), and there is an "extra" A at the end; more important, it is not in binary form.

Chapter 22 Apply This!

22.1.

a. Haydn, Piano Sonata no. 50 in D major, Hob. XVI/37 (3rd mvt.). This is a five-part rondo.

А	mm. 1–20	D	phrase group; continuous rounded binary form
В	mm. 21–40	$d \rightarrow F; g \rightarrow d$	phrase group; continuous rounded binary form
А	mm. 41–60		
С	mm. 61–80	G	mm. 61-68: parallel period; mm.
			69–80: phrase group; simple
			rounded binary form
Retrans.	mm. 81–93	$e \rightarrow A$	V of D
А	mm. 94–134	D	written-out repeats; one-measure
			cadential extension

b. Mozart, Horn Quintet in E-flat major, K.407 (3rd mvt.) This is a five-part rondo, with transitions and retransitions and a lengthy coda.

Α	mm. 1–16 Parallel period, repeated in th by soloist first and then by en	Eb e manner of a concerto—theme played semble
Trans.	mm. 17–31 Phrase elision into first episo	$E_{P} \rightarrow B_{P}$ de
В	mm. 32–52 References to refrain, mm. 39	Вь 9–42 and 46–51
Retrans	mm. 53–57	V of Eb
А	mm. 58–73 As first time	Е
С	mm. 74–105 Continuous rounded binary fo	$c \rightarrow Eb; A \rightarrow Eb \rightarrow c$
Retrans.	mm. 106–127 At mm. 120–127	V of Eb

А	mm. 128–143	Eμ
	As first time, but with	elision to coda at m. 143
Coda	mm. 143–188	Е

c. Schumann, "Grillen" from *Phantasiestücke*. This is a seven-part rondo.

А	mm. 1–16 Parallel period	Db
В		-Ab - f ted by dynamics, texture, and key
А	mm. 45–60	D
С	mm. 61–96	G
А	mm. 97–112	D
Β'	mm. 113–140 bb -	-Db - bb
А	mm. 141–156	D

Level Mastery 23.1.

Mozart's 12 Variations on "Ah, vous dirais-je, Maman" is an example of sectional variation.

Theme: The theme is in sectional rounded binary form, with a two-part quarter-note texture.

- Variation 1: This is a good example of ornamental variation. The left hand is substantially the same as the left hand of the Theme; the right hand is heavily decorated with passing and neighbor tones in a sixteenth-note texture. Only at cadential points do the sixteenth notes cease.
- Variation 2: The sixteenth-note activity of Variation 1 is here transferred to the left hand. The right hand presents the theme harmonically embellished with suspensions. This variation has a four-part texture. The theme itself is also chromatically altered and reharmonized with secondary diminished and dominant chords at measures 68–70.
- Variation 3: A new rhythmic element—triplets—is introduced. The suspension activity introduced in Variation 2 is found here in the context of compound melody (measures 77–78 and 93–94).

- Variation 4 combines the triplet rhythm of Variation 3 (now in the left hand) with the three-part suspension chain of Variation 2.
- Variation 5 returns to the simple texture of the theme, but with right and left hand alternating attacks in a primarily eighth-note rhythm. Syncopation is introduced into the melody in measures 125–127, and the diatonic descent of the Theme in measures 9–16 is replaced by a chromatic descent here (measures 129–136). The reprise of the opening phrase is further embellished with sixteenth notes.
- Variation 6: The theme is heard here in eighth-note attacks, harmonized with the chain of suspensions first heard in Variation 2. The left hand resembles Variation 2 in its sixteenth-note activity with passing- and neighbor-tone embellishments. The left and right hands switch parts for measures 153–160; this is the first time the theme is heard in the left hand. The harmony is mostly diatonic, closely resembling the harmony of the Theme.
- Variation 7: This variation is "farthest" from the theme so far, the opening phrase replaced by a rapidly ascending scale. The contrasting phrase of the theme (measures 9–16) is replaced by a descending scale.
- Variation 8: This variation is in the parallel minor. The suspension chain first heard in Variation 2 is also found here, and for the first time the theme is presented in an imitative texture (left hand imitating the right at the fifth below, with a time interval of two measures). The contrasting phrase (measures 201–208) features three-part imitative counterpoint, each voice entering an octave below the previous voice, with a mostly chromatic descent as found in Variation 5.
- Variation 9 returns to the major mode, retaining the imitative counterpoint heard in Variation 8 but also returning to the simpler texture of the theme.
- Variation 10 employs hand crossings and sixteenth-note figurations. Harmonically this variation resembles Variation 2 in its use of secondary chords. The contrasting phrase contains a suggestion of the imitative counterpoint heard in Variations 8 and 9, the chromatic descent in the Theme at measures 249–252 imitated in the bass in measures 251–254 (in stretto).
- Variation 11 changes tempo for the first time (Adagio). It is also the most melodically embellished variation.
- Variation 12 returns to allegro and features a change of meter (to ³/₄) for the first time. The sixteenth-note accompaniment is reminiscent of Variation 2, and this figuration dominates the contrasting phrase (measures 297–304). Measures 313–323 make up a short coda.

Chapter 23 Self-Test

23.1.

Various answers are possible.

23.2.

Beethoven's "32 Variations on an Original Theme" more closely resemble a chaconne, based on the harmonic progression that is used for each variation.

23.3.

Various answers are possible. Here is one possible segmentation, based on addition and subtraction of layers in the texture ("Radio Edit" version). The harmonic progression remains the same throughout. The meter is interpreted as $\frac{4}{4}$ with a tempo of 120 beats per minute.

[0:00-0:23]	3×4 measures	bass and synth, gradually opening low-pass filter
[0:23-0:55]	4×4 measures	"wah-wah" clavinet keyboard added at 0:40
[0:55-1:27]	4×4 measures	"around the world" synth vocal; change in hi-hat
		rhythm at 1:12
[1:27–1:35]	4 measures	Instrumental break
[1:35–1:50]	2×4 measures	"around the world" synth vocal returns; change in
		hi-hat rhythm
[1:50-2:22]	4×4 measures	
[2:22-2:38]	2×4 measures	Instrumental break
[2:38-2:54]	2×4 measures	Vocal break ("around the world" + hi-hat and synth
		claps only; no drums)
[2:54–3:10]	2×4 measures	Synthesizers added doubling and harmonizing
		"around the world" vocal synth pattern
[3:10-3:59]	6×4 measures	Drums, bass added; fade out at end

[3:10–3:59] 6×4 measures Drums, bass added, rade out at end Although the basic phrase unit is four measures of $\frac{4}{4}$ meter, as in so much electronic dance music, note that the larger groupings of phrases are not strictly symmetrical.

Chapter 23 Apply This!

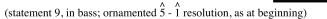
23.1.





















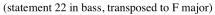






transposed to d minor; $\frac{1}{5}$ resolves to $\frac{1}{1}$ with octave displacements)







96 ches Sol _ las sen___ wis sen wis sen Ì wis und mich Sol-ches sen, wis sen las sen transposed to Bb major) 9÷₊ ð Sol - ches las sen sen -۸ ^ ₫ ┛╡┹

(measures 90–94: no statements)



(statement



(measures 107–117: Imitative development of first six notes of the ground bass)

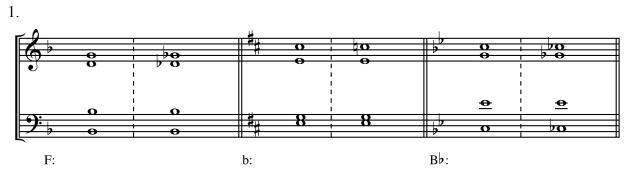


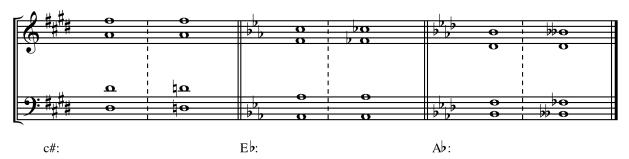
(measures 122–124: imitative development of first six notes of the ground bass) (measures 12–135: no statements)



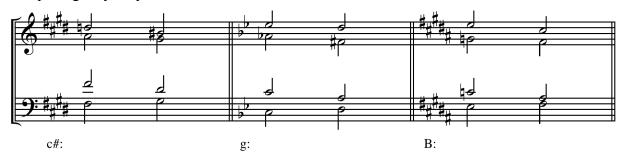


Level Mastery 24.1.



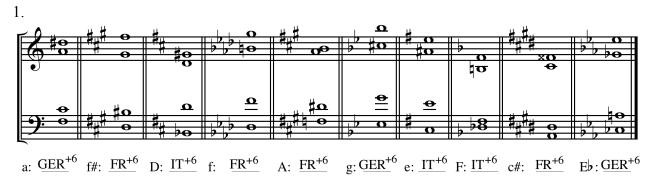


2. Spacing may vary.

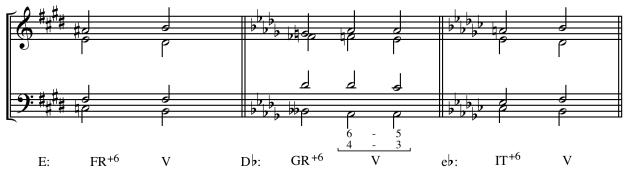


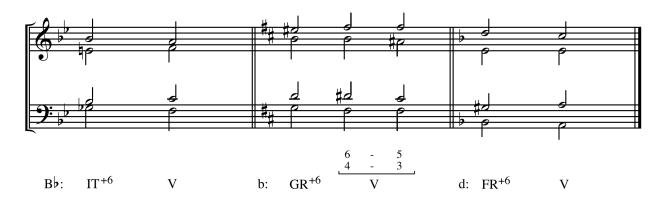


Level Mastery 24.2.



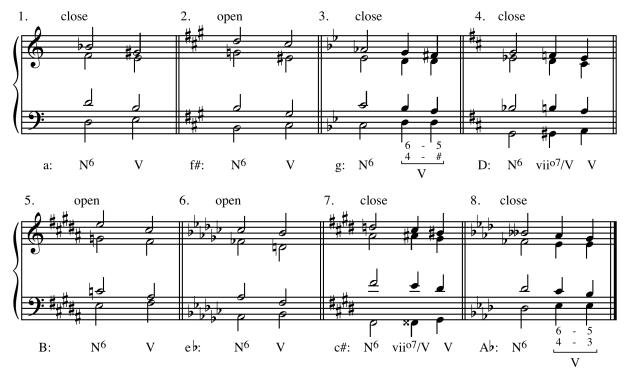
2. Various spacings are possible.



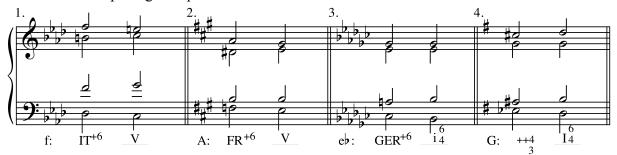


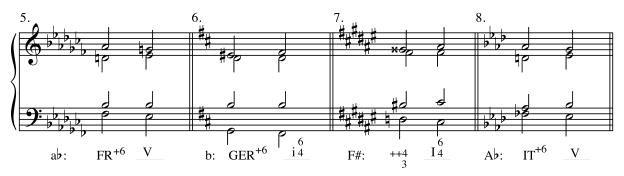
Chapter 24 Self-Test

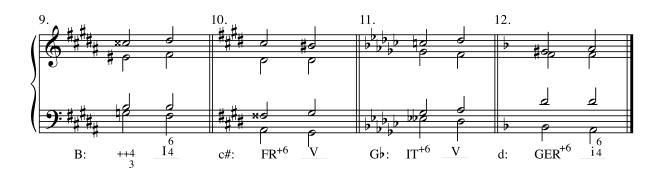
24.1.



24.2. Various spacings are possible.







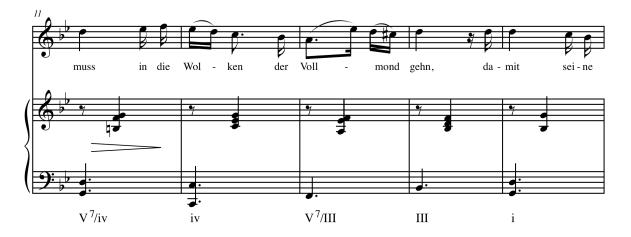
Chapter 24 Apply This!

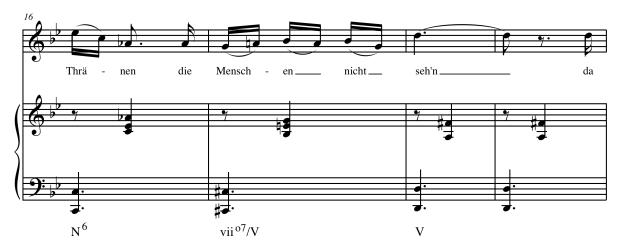
24.1.

a.

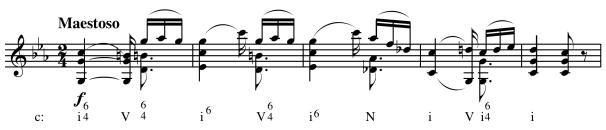






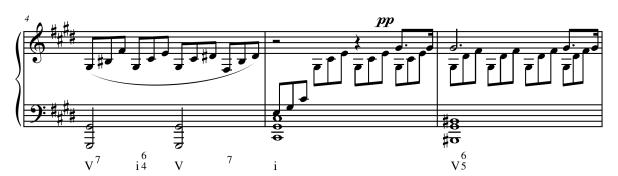


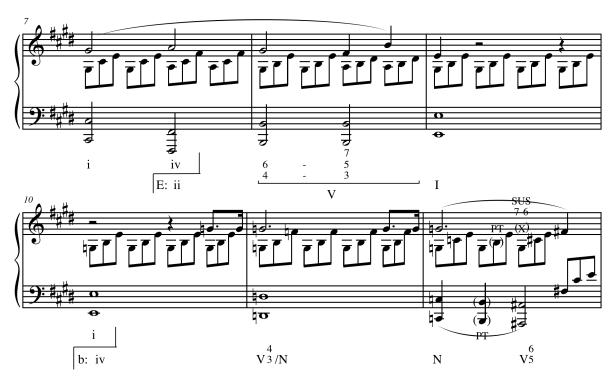
b.



c. Measures 16 and 18 may also be analyzed as an arpeggiated iv chord with the C¹/₄ and A[#]/₄ acting as a measure-long neighbor group; however, the distinctive "Neapolitan" flavor of the neighbor-group turn invites the arpeggiated N⁷ analysis shown here.



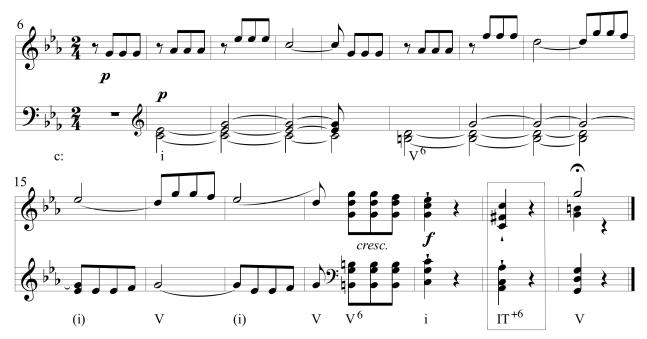




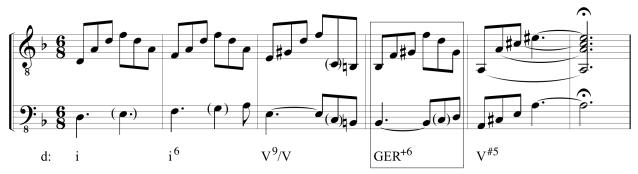


24.2. Analysis

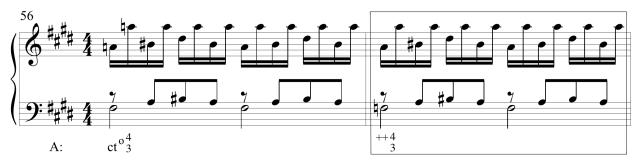
a. Beethoven, Symphony no. 5 in C Minor, as transcribed by Franz Liszt (1st mvt.), mm. 6–21.



b. The Beatles, "I Want You (She's So Heavy)."



c. Haydn, Piano Sonata in C-Sharp Minor, Hob. XVI/36 (1st mvt.), mm. 56-59.

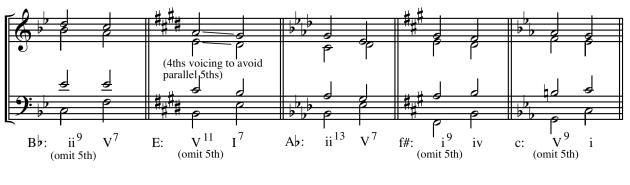


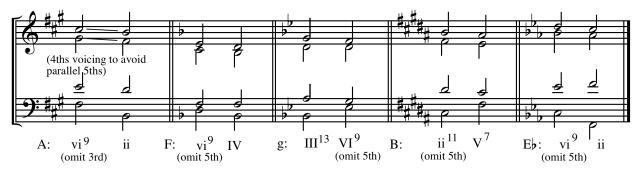


Level Mastery 25.1.

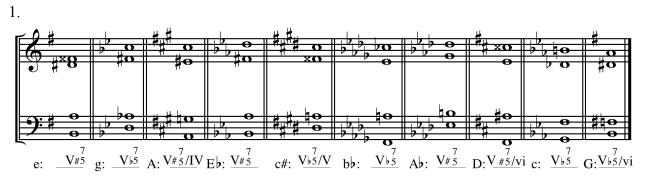
1.	b. V ⁹	A: ii ¹¹	Bb: vi ⁹	g#: V ¹³	
	f: VI ⁹	D: V ⁹	F: V ¹³	\mathbf{D} : \mathbf{V}^{11}	e: V ¹³

2.

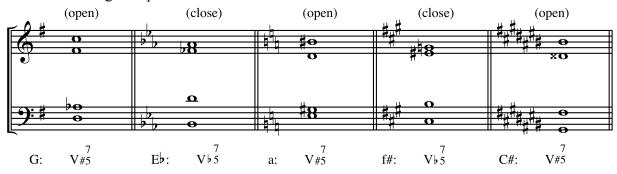


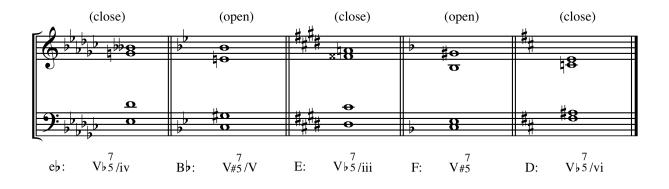


Level Mastery 25.2.



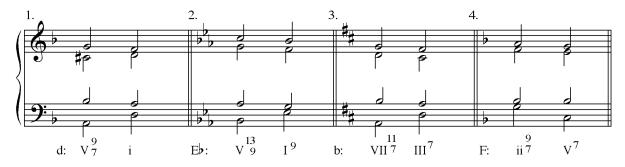
2. Other voicings are possible.



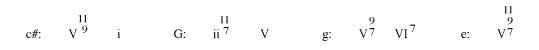


Chapter 25 Self-Test

25.1. Spacings may vary.

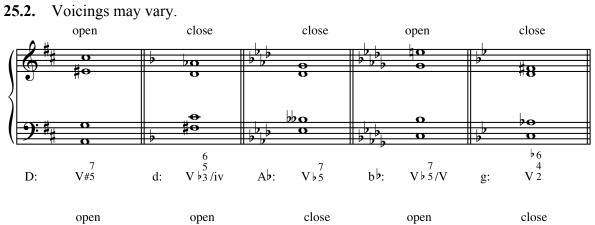


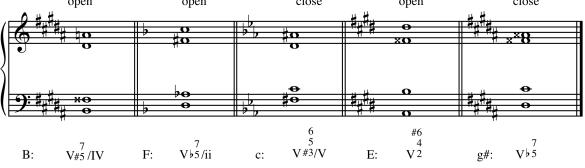


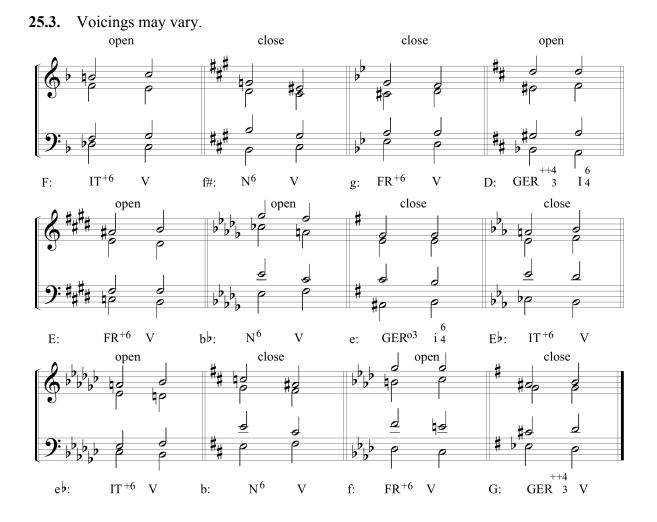




i

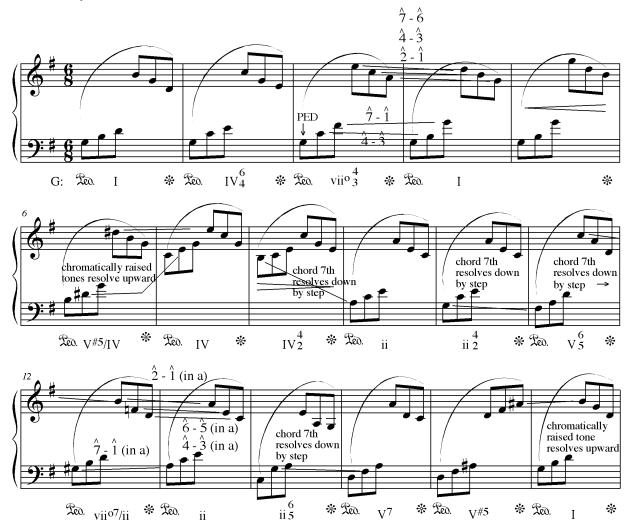


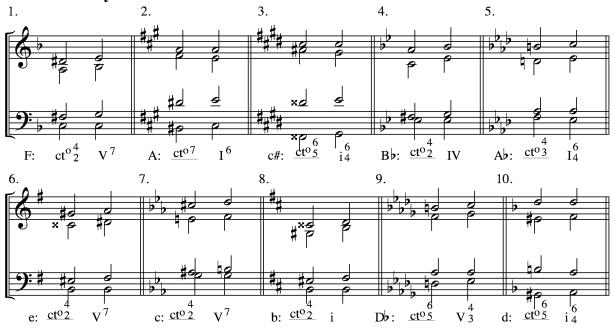




Chapter 25 Apply This!

25.1. Analysis



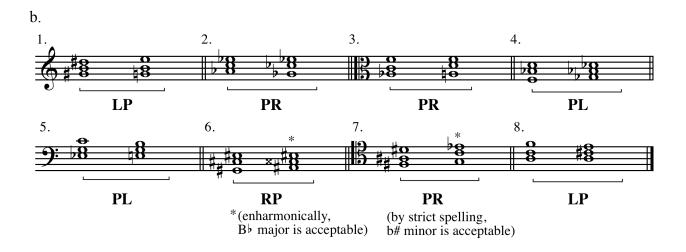


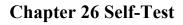
Level Mastery 26.1

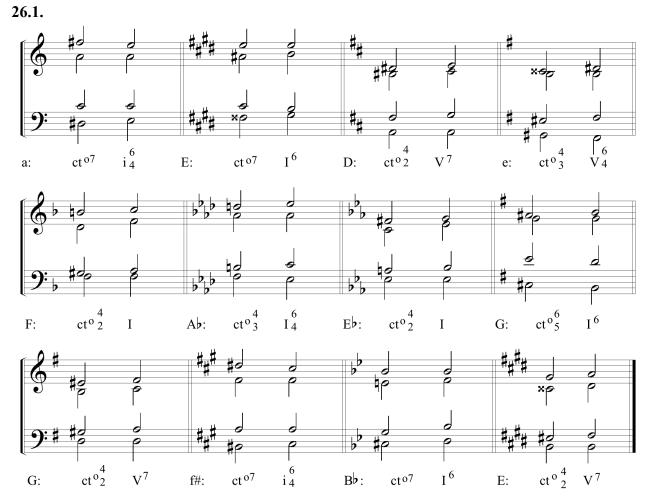
Note: Where voices resolve to an octave or unison, inversion of these voices is also possible. Thus, for example, $\sharp 2$ may be approached from a $\operatorname{ct}_{3}^{\circ 4}$ as well as a $\operatorname{ct}^{\circ 7}$.

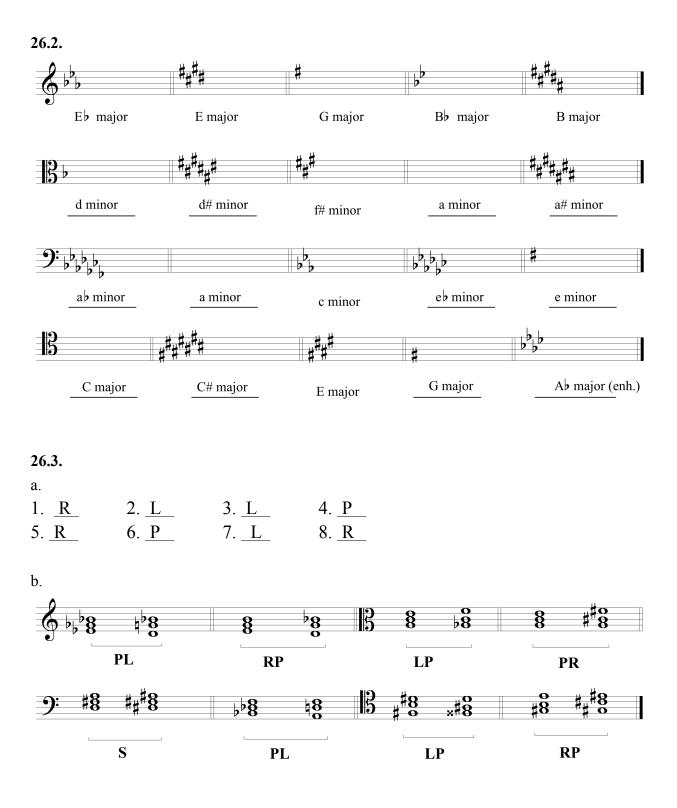
Level Mastery 26.2.

a. 1	<u>P</u>	2.	<u>R</u>	3. <u>R</u>	4.	Р
5	<u>R</u>	6.	Р	7. <u>L</u>	8.	R
9	PL_	10.	RP	11. <u>LP</u>	12.	RP
13.	PR	14.	LP	15. <u>RP</u>	16.	PL

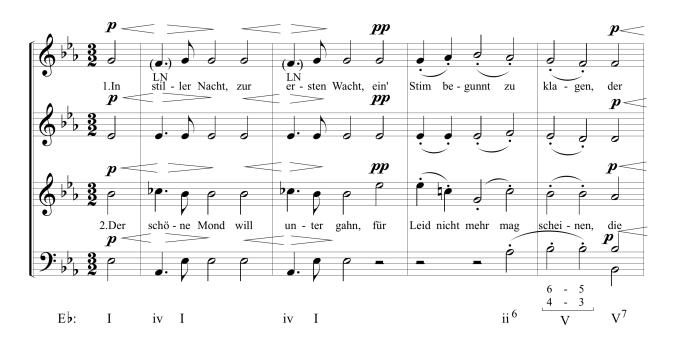


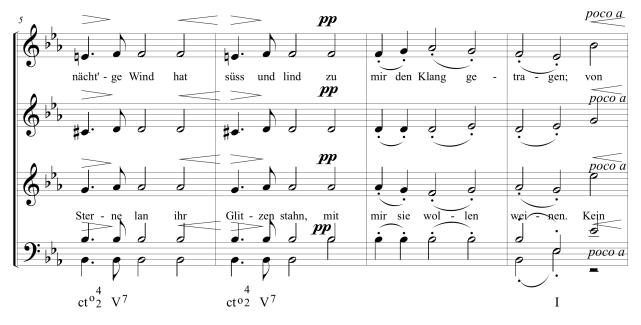


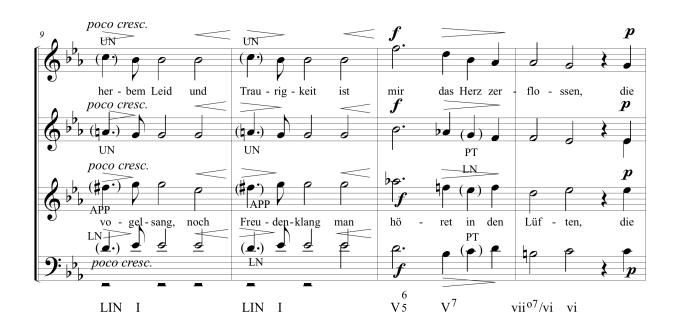


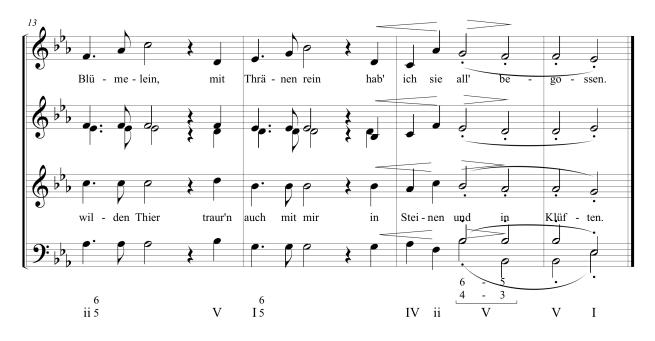


Chapter 26 Apply This



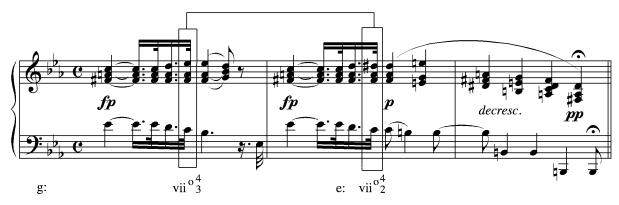




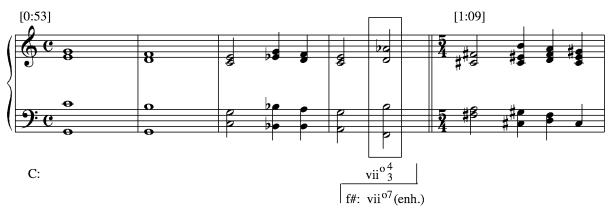


Level Mastery 27.1.

Beethoven, Piano Sonata no. 8 in C minor ("Pathétique"), Op. 13 (1st mvt.), measures 134–136.

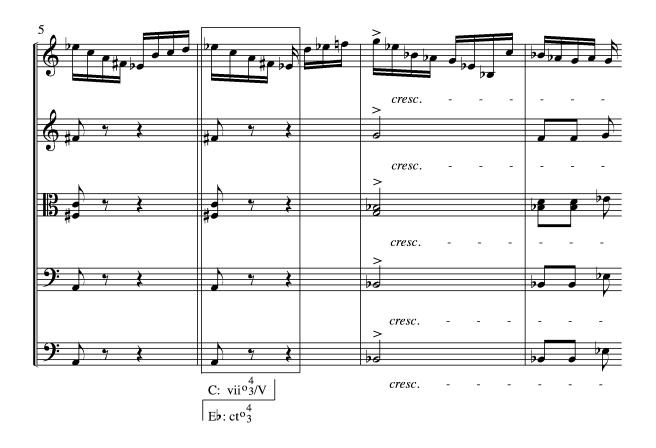


b. Paul Simon, "Tenderness" [0:53–1:14], chord progression only.



c. Schumann, Symphony no. 2, Op. 61 (2nd mvt.), measures 1–8, strings only. Allegro vivace



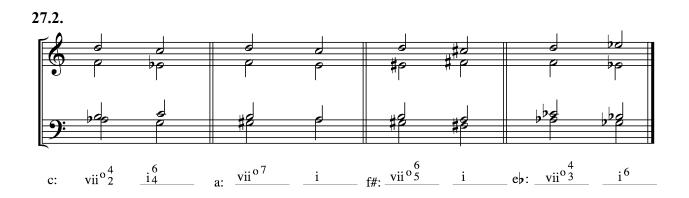


Level Mastery 27.2.



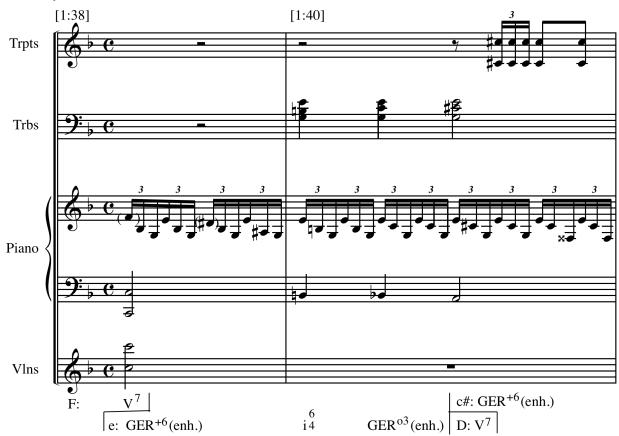
Chapter 27 Self-Test

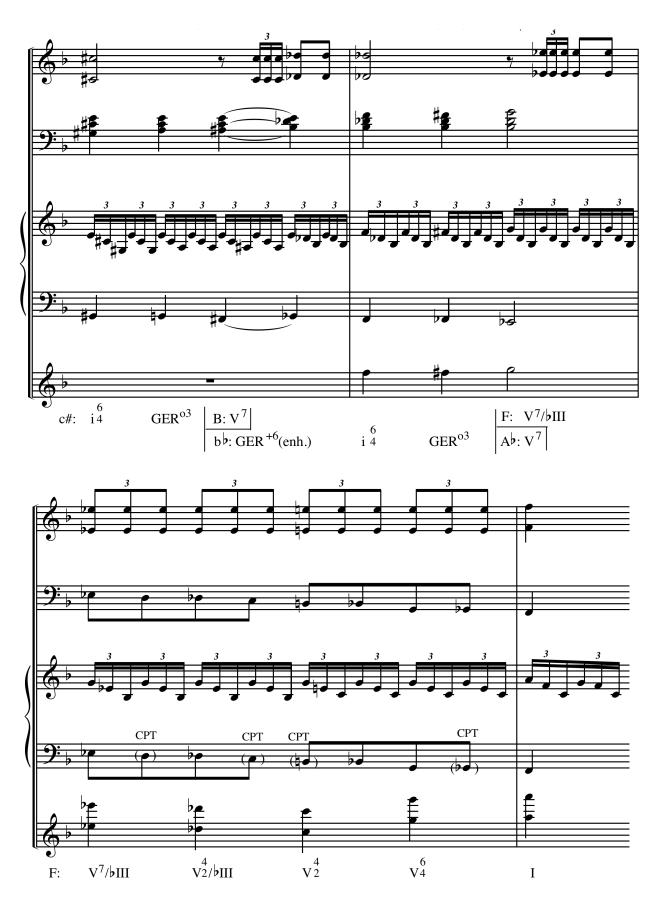
27.1. e



Chapter 27 Apply This!







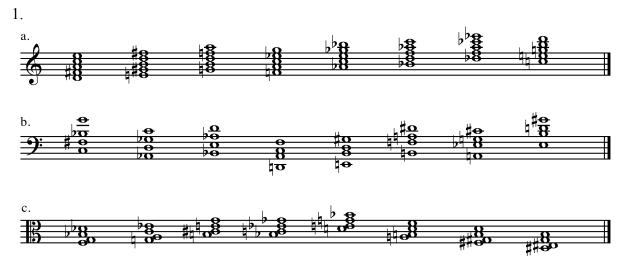
27.2. Composition

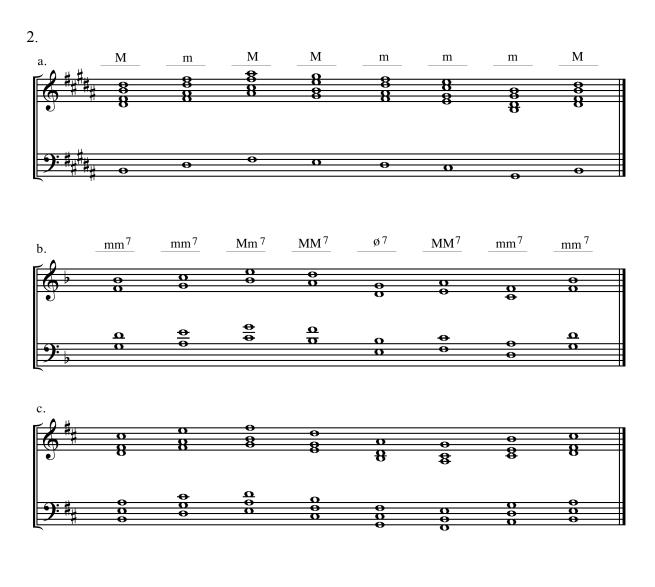
Various answers are possible.

27.3. Improvisation

Various answers are possible.

Level Mastery 28.1.

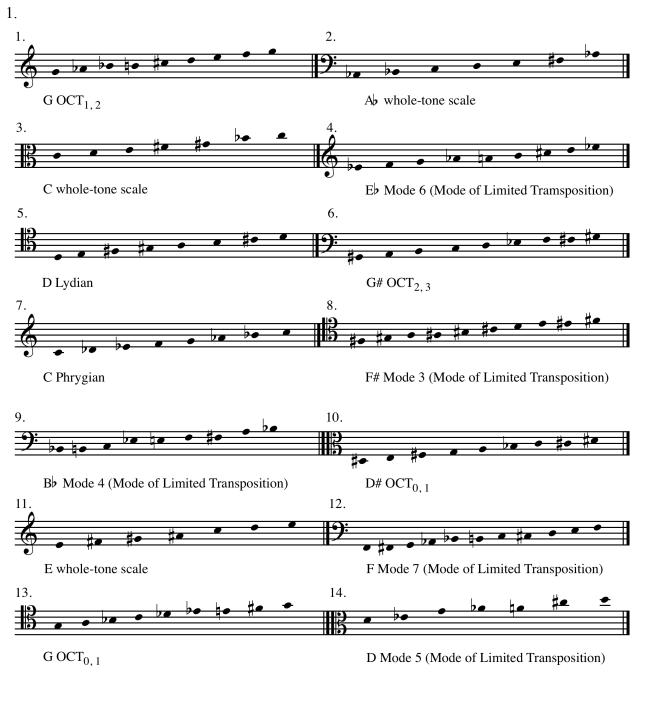




Level Mastery 28.2.

1. E	2.	0	3. 8	4. T	5.8	6. 6
7. E	8.	3	9.9	10. 2	11. 6	12. 4
13. 6	14.	5	15. 9	16. 2	17. 3	18. 3
19. E	20.	6	21. 4	22. 0	23. 6	24. 8
25. 3	26.	1	27. 8	28. T	29. 5	30. 6

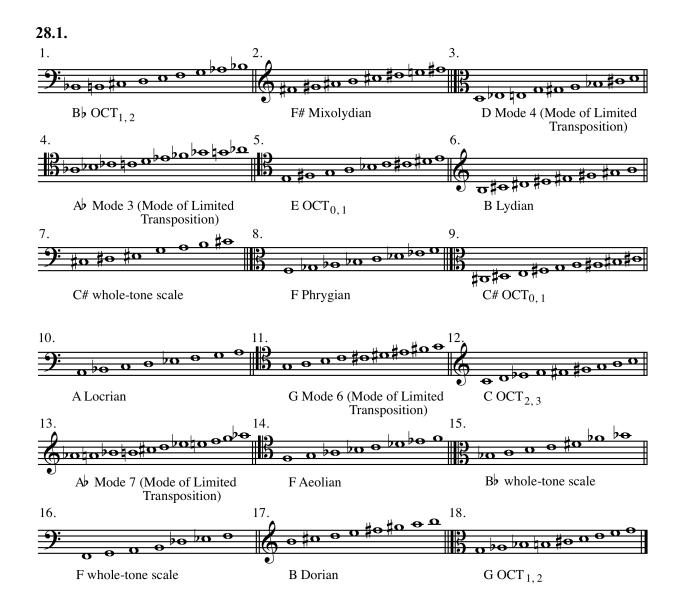
Level Mastery 28.3.



Level Mastery 28.4.

1. <u>QT-QN</u>	2. <u>QN</u>	3. <u>QT</u>	4. <u>QN</u>	5. <u>QT-QN</u>
6. <u>QT-QN</u>	7. <u>QT</u>	8. <u>QT</u>	9. <u>QN</u>	10. <u>QT-QN</u>

Chapter 28 Self-Test



Chapter 28 Apply This!

28.1. Composition

Various answers are possible.

Level Mastery 29.1.

I: I₀ a. R: R₀ RI: RI₀

	I ₀	I_1	I9	I ₁₁	I_8	I ₁₀	I_4	I ₅	I ₆	I ₂	I ₃	I_7	
P ₀	4	5	1	3	0	2	8	9	10	6	7	11	\mathbf{R}_{0}
P ₁₁	3	4	0	2	11	1	7	8	9	5	6	10	R ₁₁
P ₃	7	8	4	6	3	5	11	0	1	9	10	2	\mathbf{R}_{3}
P ₁	5	6	2	4	1	3	9	10	11	7	8	0	\mathbf{R}_{1}
P ₄	8	9	5	7	4	6	0	1	2	10	11	3	R ₄
P ₂	6	7	3	5	2	4	10	11	0	8	9	1	\mathbf{R}_2
P ₈	0	1	9	11	8	10	4	5	6	2	3	7	R_8
P ₇	11	0	8	10	7	9	3	4	5	1	2	6	\mathbf{R}_7
P ₆	10	11	7	9	6	8	2	3	4	0	1	5	R ₆
P ₁₀	2	3	11	1	10	0	6	7	8	4	5	9	R ₁₀
P9	1	2	10	0	9	11	5	6	7	3	4	8	R9
P ₅	9	10	6	8	5	7	1	2	3	11	0	4	R ₅
	RI ₀	RI ₁	RI9	RI 11	RI ₈	RI 10	RI ₄	RI ₅	RI ₆	\mathbf{RI}_2	RI ₃	RI ₇	

b. Rows labeled using traditional method.

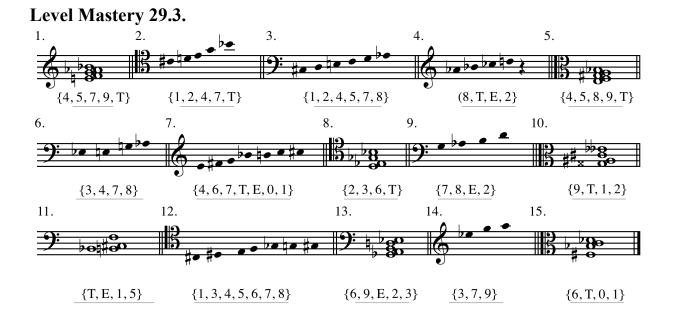
Row a: I₄

Row b: R_6 Row c: RI_1

Row d: P_1

Level Mastery 29.2.

1. $\{3, 6, 8, 9\}$	2. <6, 2, 5, T, 4>	3. <8, 4, 3, 2, 5, 7>
4. <e, 2,="" 3,="" 6="" t,=""></e,>	5. $\{0, 2, 4, 6, 9, T\}$	6. $\{0, 1, 3, 4, 6, 7, 9, E\}$
7. <t, 1,="" 4="" 8,="" 9,="" e,=""></t,>	8. {0, 5, 7, T}	9. <5, 4, T, 8>
10. $\{0, 1, 6, 7, T\}$	11. $\{1, 2, 3, 4, 6, 8, 9, T\}$	12. <7, 4, 3, 6, 1, 5, 2>
13. $\{2, 6, 8, T\}$	14. <3, 2, 5>	15. $\{1, 2, 3, 4, 7, 8, E\}$



Level Mastery 29.4.

a.

1.	{8, 9, 1}	$\leftarrow T_6 I \rightarrow$	{5, 9, T}
2.	$\{2, 5, 6, T\}$	$T_2 \rightarrow$	$\{4, 7, 8, 0\}$
3.	{2, 3, 6, 8}	$\leftarrow T_7 I \rightarrow$	_{E, 1, 4, 5}_
4.	{3, 4, 7}	←T ₀ I→	{5, 8, 9}
5.	{1, 2, 5, 9}	$T_7 \rightarrow$	$\{8, 9, 0, 4\}$
6.	$\{4, 6, E\}$	$T_6 \rightarrow$	{T, 0, 5}
7.	{4, 5, 8}	←T ₆ I→	{T, 1, 2}
8.	$\{0, 2, 4, 6, 8\}$	T ₃ →	{3, 5, 7, 9, E}
9.	$\{0, 1, 3, 4, 6\}$	$T_5 \rightarrow$	{5, 6, 8, 9, E}
10.	{1, 3, 7}	←T ₃ I→	<u>{8, 0, 1}</u>

b. Sets are labeled below in integer notation to show work.

1.	{4, 5, T}	←T ₅ I→	{7, 0, 1}
2.	$\{7, 8, E, 3\}$	T ₆ →	{1, 2, 5, 9}
3.	$\{9, T, 0, 3\}$	←T ₈ I→	$\{5, 8, T, E\}$
4.	$\{T, 0, 1, 4\}$	$T_4 \rightarrow$	$\{2, 4, 5, 8\}$
5.	$\{E, 0, 4, 6\}$	T₃→	$\{2, 3, 7, 9\}$
6.	{2, 3, 4, 6}	T ₆ →	$\{8, 9, T, 0\}$
7.	{8, T, 1, 4}	←T ₅ I→	{1, 4, 7, 9}

8.	{4, 5, 6, 9}	T ₉ →	$\{1, 2, 3, 6\}$
9.	{2, 3, 5, 9}	$\leftarrow T_{10}I \rightarrow$	$\{1, 5, 7, 8\}$
10.	$\{T, E, 2, 4\}$	$T_5 \rightarrow$	$\{3, 4, 7, 9\}$
11.	$\{8, 9, E, 2\}$	$T_2 \rightarrow$	$\{T, E, 1, 4\}$
12.	{3, 4, 6, 8}	←T ₉ I→	$\{1, 3, 5, 6\}$
13.	{6, 7, T, 1}	←T ₅ I→	$\{4, 7, T, E\}$
14.	$\{5, 6, T, 1\}$	$T_7 \rightarrow$	$\{0, 1, 5, 8\}$
15.	{7, 8, 9, 2}	T₃→	$\{T, E, 0, 5\}$

Level Mastery 29.5.

1.	(036)	2.	(027)	3.	(0236)	4.	(0167)	5.	(0156)
	002001		010020		112101		200022		200121
6.	(0146)	7.	(02479)	8.	(023579)	9.	(013579)	10.	(0134679T)
	11111		032140		143241		142422		448444

Level Mastery 29.6.

Most of the vertical sonorities in the passage (sometimes piano alone, sometimes including voice) are of set class (0268), which is intervallically symmetrical. (0268) is also symmetrical by transposition, meaning that the same unordered set results when transposed by a tritone. Note, for example, that the progression begins with the chord $\{Bb, D, Ab, E\}$ and ends, in measure 4, with the chord $\{E, D, G\sharp, Bb\}$ (including the voice). In tonal terms, this is analogous to the resolution pattern of a French augmented sixth chord being similar to a second-inversion flatted-fifth altered dominant seventh chord (the so-called "tritone substitution" in jazz).

One vestige of traditional tonality in this passage—besides the key signature—is the fact that, with the bass line moving up by perfect fourth or down by perfect fifth—the passage resembles a chromatic circle-of-fifths sequence with flatted-fifth altered dominant chords.

Chapter 29 Self-Test

29.1.				
1. (014)	2. (01568)	3. (0146)	4. (0157)	5. (01267)
101100	211231	111111	110121	310132
6. (0268)	7. (03458)	8. (012578)	9. (013568)	10. (01235689)
020202	212320	322242	233241	546553

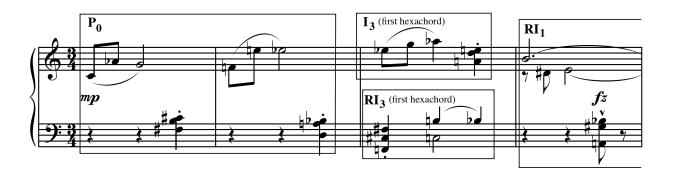
	•	
1. $\{7, 8, E\}$	←T ₉ I→	{T, 1, 2}
2. $\{3, 4, 6, 9\}$	T ₈ →	{E, 0, 2, 5}
3. $\{2, 3, 6, 9, T\}$	$T_2 \rightarrow$	{4, 5, 8, E, 0}
4. {8, 9, 1, 3}	$T_4 \rightarrow$	$\{0, 1, 5, 7\}$
5. $\{7, 9, T, 0, 2\}$	T ₁₀ →	{5, 7, 8, T, 0}
6. $\{4, 5, 9, 0\}$	T ₃ →	$\{7, 8, 0, 3\}$
7. $\{1, 3, 5, 7, T\}$	$T_4 \rightarrow$	{5, 7, 9, E, 2}
8. {9, T, 0, 3}	←T ₉ I→	{6, 9, E, 0}
9. {T, E, 0, 3, 5}	$\leftarrow T_1 I \rightarrow$	{8, T, 1, 3, 4}
10. {8, 9, T, 1, 2}	$T_9 \rightarrow$	$\{5, 6, 7, T, E\}$
11. $\{2, 3, 5, 8, T\}$	←T ₄ I→	{6, 8, E, 1, 2}
12. $\{2, 4, 5, 6, 9\}$	$\leftarrow T_2 I \rightarrow$	$\{5, 8, 9, T, 0\}$
13. {7, 9, T, E, 1, 3}	T ₃ →	$\{T, 0, 1, 2, 4, 6\}$
14. {6, 7, 9, T, 1, 3}	T ₁₁ →	$\{5, 6, 8, 9, 0, 2\}$
15. {E, 0, 2, 4, 6, 8}	$T_5 \rightarrow$	{4, 5, 7, 9, E, 1}
16. {3, 4, 5, 8, T, E}	T ₃ →	{6, 7, 8, E, 1, 2}

29.2. Sets are labeled below in integer notation to show work.

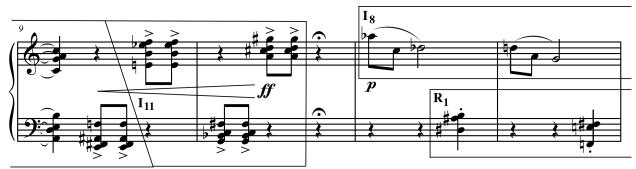
29.3. The pitch axis of symmetry is C4. The set class for each staff is (01234589). The two staves are related to one another at T_0I .

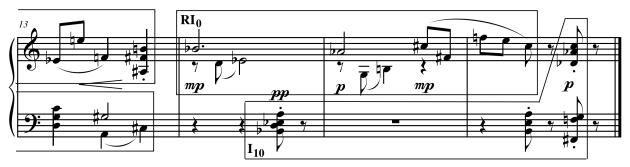
Chapter 29 Apply This!

29.1.													
	I ₀	I_8	I_7	I ₆	I ₁₁	I_1	I ₅	I_4	I ₃	I9	I ₁₀	I_2	
P ₀	0	8	7	6	11	1	5	4	3	9	10	2	\mathbf{R}_{0}
P ₄	4	0	11	10	3	5	9	8	7	1	2	6	\mathbf{R}_4
P ₅	5	1	0	11	4	6	10	9	8	2	3	7	R_5
P ₆	6	2	1	0	5	7	11	10	9	3	4	8	R ₆
P ₁	1	9	8	7	0	2	6	5	4	10	11	3	\mathbf{R}_{1}
P ₁₁	11	7	6	5	10	0	4	3	2	8	9	1	R ₁₁
P ₇	7	3	2	1	6	8	0	11	10	4	5	9	\mathbf{R}_7
P ₈	8	4	3	2	7	9	1	0	11	5	6	10	R ₈
P9	9	5	4	3	8	10	2	1	0	6	7	11	R9
P ₃	3	11	10	9	2	4	8	7	6	0	1	5	\mathbf{R}_{3}
P ₂	2	10	9	8	1	3	7	6	5	11	0	4	\mathbf{R}_{2}
P ₁₀	10	6	5	4	9	11	3	2	1	7	8	0	R ₁₀
	\mathbf{RI}_{0}	RI ₈	\mathbf{RI}_7	RI ₆	RI 11	\mathbf{RI}_1	RI ₅	RI ₄	RI ₃	RI9	RI 10	\mathbf{RI}_2	









29.2 Composition

Various answers are possible.

29.3 Ear Training

1. (015)	14.	(015)
2. (024)	15.	(024)
3. (016)	16.	(013)
4. (012)	17.	(012)
5. (014)	18.	(014)
6. (013)	19.	(015)
7. (012)	20.	(013)
8. (016)	21.	(014)
9. (013)	22.	(016)
10. (015)	23.	(014)
11. (024)	24.	(016)
12. (014)	25.	(013)
13. (016)	26.	(015)

b.

1.	(037)	14.	(037)
2.	(027)	15.	(048)
3.	(036)	16.	(036)
4.	(025)	17.	(025)
5.	(048)	18.	(027)
6.	(026)	19.	(027)
7.	(027)	20.	(025)
8.	(025)	21.	(037)
9.	(048)	22.	(026)
10.	. (037)	23.	(037)
11.	(026)	24.	(026)
12.	(036)	25.	(025)
13.	(026)	26.	(027)

Chapter 30 Apply This!

- **30.1** Composition Various answers are possible.
- **30.2** Improvisation Various answers are possible.

Chapter 31 Self-Test

31.1.

In *stylistic* intertextuality, certain musical features are used to evoke traits of a particular musical style; an Alberti bass pattern might be used to evoke *gallant* Classical style, or dotted rhythms in duple meter might be used to evoke a march genre. In *strategic* intertextuality, a *specific* musical work is referenced (directly quoted or paraphrased in a way that suggests the specific work) within a particular piece of music. For example, Beethoven's "battle symphony" *Wellington's Victory* musically portrays the Battle of Vitoria by quoting from "Rule Brittania" and "God Save the King" to depict the British Army, and quoting from the French folk song "Marlbrough s'en va-t-en Guerre" ("Marlborough has Gone to War")—also known today as "For He's a Jolly Good Fellow" or "The Bear Went over the Mountain"—to depict the French Army.

31.2.

Style indicators are those musical elements that are considered *normative* to a particular style as in, for example, the use of Alberti bass accompaniment in Classic-era piano music or rapid repeating arpeggios in the music of Philip Glass. *Genre synecdoches* are musical elements that are *foreign* to the style of the work in which they occur and which symbolize the entire genre to which they are normative; for example, the use of Alberti bass figures in a twentieth-century work would be regarded as a musical reference to Classic-era music, especially piano music.

31.3.

- a. (c), episodic marker (both passages function as "lead-ins" to the phrase that follows).
- b. (c), kinetic anaphone (a gesture indicating a rapid, tumbling fall).
- c. (b), genre synecdoche, the "horn fifths" signifying a pastoral setting and perhaps distance.

Chapter 31 Apply This!

31.1.

There are bound to be multiple interpretations and answers for this exercise. Here are some highlights to consider:

- Measure 9: The first syncopation in the piece, emphasizing C5, introduces an element of metric disturbance, mildly disrupting the flow of the *siciliano*'s gently rocking rhythm.
- Measure 17: The C5 syncopation is now harmonized in a minor, introducing a brief cadential incursion in a minor (measures 18–19) and the first appearance of harmony not diatonic to F major.
- Measure 32: The expected cadential resolution of the V⁷ in measure 32 is thwarted in measure 33, initiating a more extensive passage in a minor. (The crescendo marking here acts as an episodic marker.) These incursions of a minor foreshadow the key of the next section.
- Measure 46: The cascading sixteen-note figures mark a strongly kinetic anaphone; the a minor arpeggio is "polluted" by the added F, a reminder of the key of the opening section.
- In contrast to the tonal stability of the first section, the second section frequently uses sequences to develop material and change keys. Measures 46–53 (a minor) are sequenced down a step in measures 54–61 (g minor), and measures 62–63 (d minor) are sequenced twice by consecutive minor thirds (f minor and ab minor—the first foreign keys encountered thus far. This section culminates in an extended half cadence in ab minor (measures 70–78), followed by a slippery chromatic passage (measures 78–81) that acts as an episodic marker to the third section of the piece.
- Measure 82: The *siciliano* returns, although fragmented or "shattered." The passage (a reprise of measures 3–7a) is cut off by a rest in measure 87. After the rest, the music resumes abruptly in a minor, reprising 34–38 from the opening. The cadence is again thwarted, as it was in measures 32–33, this time by a secondary diminished seventh chord (measures 94–95). All of this suggests that the reprise has ben irrevocably altered by the turbulence of the second section.
- Measures 97–100: The return of the quarter-note–eighth-note rhythmic motive and the dominant pedal (in Db major) suggest a return to the placidity of the

siciliano. This passage is sequenced to appear in Gb major in measures 103–106). Both keys are foreign to F major. Throughout this passage, the dotted-eighth– sixteenth–eighth note *siciliano* rhythmic figure is found, developing that motive by placing it in increasingly unstable and unfamiliar harmonic contexts (see for example measures 107–110).

- Measure 115:At the Tempo I, a false recapitulation; the *siciliano* returns, but now in E major—very close in register to F major, but in fact a quite distant key relationship on the circle-of-fifths. The passage is sequenced down by chromatic mediant to C major.
- Measure 140: The second section's kinetic anaphone returns in a minor. This time there is no harmonic sequence. The descending chromatic bass in measures 154–156 is reminiscent of the *lamento* bass in Renaissance and Baroque music (e.g., see the "Crucifixus" from Bach's *Mass in B Minor* discussed in chapter 16). The descending chromatic bass tetrachord makes a full appearance in measures 176–178 and 180–182.
- Measure 197: The *siciliano* makes one last, feeble appearance in a minor, making this a rare example of a single-movement common-practice work that ends in a key other than its opening. The piece can retroactively be seen as a struggle between the "pastoral" F major and the "invading" or hostile a minor; by the end of the piece, a minor has emerged victorious, "occupying" the *siciliano*.