No Bull Music Theory for Guitarists – Volume 3 Answer Key

Volume 3, Chapter 1

- 1. The CAGED system is based on the idea of building scale patterns around familiar chord shapes.
- 2. Five barre chord shapes are used for the CAGED system.
- 3. These barre chords are derived from the open chord shapes for the chords C, A, G, E, and D.
- 4. We can **build major scale and major pentatonic patterns** around the major barre chord shapes.
- 5. We can **build minor scale and minor pentatonic scale patterns** around the minor barre chord shapes.
- 6. When we learn a new scale pattern, we also need to start developing a **vocabulary of musical ideas** that come from it. This includes useful licks, bends, or fragments—anything musical.

Volume 3, Chapter 2

- 1. We can think of extended chords as **decorated 7th chords**. They aren't a different type of chord, just seventh chords with added color tones.
- 2. **Yes**, in general, an extended chord can act as a stand-in or replacement for a basic 7th chord.
- 3. The **9th**, **11th**, and **13th** are the most commonly added extensions to 7th chords.
- 4. **Major 7** chords are often extended to **maj9** and **maj13** chords. The **11th** is rarely used on major chords because it often clashes with the major 3rd.
- 5. Minor 7 chords are commonly extended to m9, m11, and (less often) m13 chords.
- 6. **Dominant 7** chords are frequently extended to **9**, **11**, or **13** chords.
- 7. Sharp and flat versions of extensions (e.g., **b9**, **#11**, **b13**) are called **altered extensions**, or simply **alterations**.
- 8. **True** On guitar, we often don't play all the notes in an extended chord. Instead, we use the **most important tones** (usually the 3rd, 7th, and 1 or 2 extensions). Extended chords can be played with as few as **three notes** and still convey the full harmonic color.

Volume 3, Chapter 3

- 1. The two approaches are the **modal key approach** and the **chord-by-chord approach**.
- 2. A progression can be thought of as being in a modal key when all the chords come from the same major scale, but the **emphasis is not on the I chord**.
- 3. To determine which mode to use, **identify the main or "hero" chord**—the one that feels like the tonal center or "home"—then use the mode that corresponds to that chord's scale degree in the parent major key.

- 4. If the hero chord is the **I chord**, use **Ionian**.
- 5. If the hero chord is the **V** chord, use **Mixolydian**.
- 6. If the hero chord is the VII chord, use Locrian.
- 7. If the hero chord is the **II chord**, use **Dorian**.
- 8. If the hero chord is the IV chord, use Lydian.
- 9. If the hero chord is the III chord, use Phrygian.
- 10. If the hero chord is the VI chord, use Aeolian (aka the natural minor scale).
- 11. **True** The chord-by-chord approach involves using a **different mode for each chord**, changing modes as the chords change.

Volume 3, Chapter 4

- 1. **Diatonic chords** are the chords found in the standard chord family of a key. For example, the diatonic chords in the key of G major are: G, Am, Bm, C, D, Em, and F#dim.
- A diatonic stand-in chord is a chord that keeps the same root note as one of the chords in the key, but changes its quality—typically from minor to major or vice versa—to add variety.
- 3. We might **change the quality** of chords II, III, and VI from minor to major, resulting in IImaj, IIImaj, and VImaj chords.
- 4. The **III major** chord is often used to **resolve smoothly into the IV chord**, creating a strong voice-leading motion upward.
- 5. The most common example of a minor chord being used as a stand-in for a major chord is when **chord IV** is **changed from major to minor**, i.e., **IV** → **IVm**.

Volume 3, Chapter 5

- 1. The interval structure for a diminished triad is: root + b3 + b5.
- 2. The interval structure for an augmented triad is: root + 3 + #5.
- 3. The interval structure for a diminished 7th chord is: root + b3 + b5 + bb7 (enharmonic equivalent of 6).
- 4. The interval structure for an augmented 7#5 chord is: root + 3 + #5 + b7.
- 5. Yes, diminished 7th chords do repeat at 3-fret intervals up and down the fretboard.
- 6. Yes, in a diminished 7th chord, any of the four notes can be treated as the root due to the symmetrical structure.
- 7. There are 3 diminished families: C-Eb-Gb-A; Db-E-G-Bb; D-F-Ab-B.
- 8. You can repeat an augmented triad voicing up or down 4 frets.
- 9. There are 4 augmented families: C-E-Ab; Db-F-A; D-F#-Bb; Eb-G-B.
- 10. The best chord symbol to describe this is **7#5** (e.g., G7#5, Bb7#5), or alternatively +7.
- 11. Augmented 7th chords are often used as stand-ins for **dominant 7th chords** to introduce added tension.

Volume 3, Chapter 6

- 1. The interval formula for the natural minor scale is: Root 2 b3 4 5 b6 b7.
- 2. The interval formula for the harmonic minor scale is: Root 2 b3 4 5 b6 7.
- 3. The only difference between the two scales is the 7th note.
- 4. The 7th note in the harmonic minor scale is called the leading tone.
- 5. Filled-in triad table:

Scale	I	II	bIII	IV	V	bVI	bVII/VII
Natural Minor	m	dim	maj	m	m	maj	maj
Harmonic Mino	r m	dim	aug	m	maj	maj	dim

- 6. The most important difference is **chord V**:
 - o In **natural minor**, chord V is **minor**

Chord Ontions

- o In **harmonic minor**, chord V is **major**, which provides dominant function
- 7. In harmonic minor, chord V is commonly played as either:
 - Major (e.g., E major in A harmonic minor)
 - o **Dominant 7th** (e.g., E7 in A harmonic minor)

Volume 3, Chapter 7

Degree

1. Combined Minor Chord Family (Most Common Options)

Degree	Onora Options
1	m or m7
II	m7♭5
III	Maj or Maj7
IV	m7
V	Maj, 7, m, or m7
VI	Maj or Maj7
VII	Maj or 7

- 2. The V chord in minor keys can be:
 - o minor (m)
 - o minor 7 (m7)
 - major (maj)
 - o dominant 7 (7)
- The dominant 7 (V7) chord generally has the strongest pull to the I chord. A major
 V also creates strong resolution, but the V7 contains more tension due to the tritone
 between the 3rd and 7th.
- 4. Embedded Scale in Natural Minor

The **minor pentatonic** scale is embedded within the natural minor scale. This

allows us to use the minor pentatonic any time the natural minor scale is appropriate.

5. Progression: | Am | G | F | G |

This entire progression fits naturally within **A natural minor**.

- → Recommended scale: A natural minor or A minor pentatonic
- 6. Progression: | Am | F | Bm7b5 | E7 |

This progression includes a V7 chord (E7), which points to the **harmonic minor** scale.

- → Recommended scale: **A harmonic minor** (optional: use natural minor until V7 appears, then switch)
- 7. Progression: | Am7 | Dm7 | Cmaj7 | E |

The first three chords fit **A natural minor** well, especially since **Am7** implies natural minor. The **E major** chord (V) fits **A harmonic minor**.

- → Suggested approach: Use **A natural minor** for bars 1–3, switch to **A harmonic minor** over **E**
- 8. Progression: | Am | Dm7 | Am | Fmaj7 |

All chords exist in both A natural minor and A harmonic minor families.

→ Either scale will work. You can also mix them or use **A minor pentatonic** for a more bluesy sound.

Volume 3, Chapter 8

- 1. A secondary dominant chord is a dominant 7th chord that does not occur naturally in the chord family or key—it temporarily tonicizes another chord.
- 2. The chords **most often changed into secondary dominants** are the **II, III, VI, and VII** chords. This is a generalization, not a strict rule.
- 3. The **V7 chord is** *not* **a secondary dominant**, because it occurs naturally in the key and is part of the diatonic chord family.
- 4. A secondary dominant tends to work best when it functions as the **V** chord of the chord it is resolving to.
- 5. In the key of F:
 - a. A7 would be labeled III7
 - b. **Bb7** would be labeled **IV7**
 - c. F7 would be labeled I7
- 6. The **secondary dominants** from the given list are:

G7 (II7)

E7 (VII7)

The other chords (Fmaj7, Dm7, and C7) are **diatonic** to the key of F and **not** secondary dominants.

Volume 3, Chapter 9

1. Parallel major and minor keys are scales that share the **same root note**, but have different sets of notes and chords—e.g., G major and G minor.

- 2. Yes, Bb major and Bb minor are parallel keys because they share the same root note, Bb.
- 3. The parallel minor of F major is **F minor**.
- 4. Two common names for this concept are **modal interchange** and **modal mixture**.
- 5. The IV chord in a major key is often changed into a **IV minor chord (IVm)**, borrowed from the parallel minor.
- 6. Example progressions using chords from both F major and F minor families:
 - **a**: F Ab Bb Bbm
 - **b**: F C Db Eb
 - c: F Bb Ab Eb
 - **d**: F Ab Bb C Eb

Volume 3, Chapter 10

- 1. Key changing is also called *modulation*. If a chord sequence changes key, we could say it has "modulated."
- 2. Chord progressions in major keys often modulate to their *relative minor* key. The reverse is also true a minor key progression often modulates to its *relative major*.
- 3. The progression starts in G major using I, IV, and V. In bar 5 it modulates to *E minor*, the *relative minor* of G. In E minor, the chords function as: I (Em), bVI (C), bVII (D), IV (Am)
- 4. The final chord before the loop is D major the V chord in G major. This "sets up" a return to G, creating a *perfect cadence* (V–I).
- 5. In bar 3, the progression modulates from A major to *A minor*. The E major chord acts as V in both A major and A minor, functioning as a pivot to *set up* both keys.
- 6. If the progression modulated *up a whole step*, the new chords would be: | G | D | Em | C |.
- 7. To create smoother transitions:

In bar 4, insert **Bb or Bb7** to lead into bar 5 (Eb as I in Eb major).

In bar 8 (if repeating), insert **G or G7** to set up return to C major.

So the progression becomes:

|| C | Am | F | G Bb(7) |

| Eb | Cm | Ab | Bb G(7) ||

Volume 3, Chapter 11

Volume 3, chapter 12