

Matthäus Gugl's (ca. 1683-1721)

Fundamentals of Thoroughbass
Fundamenta Partiturae (1719)

Appendix 2: Solutions

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The complete treatise is available in the original German and in English translation, with an editorial commentary in the journal Theoria 29 (2024).

Explanation of Gugl's symbols

A diagonal line (–) in the figures has three possible meanings:

- (1) If three figures are above the line, then all three are played an octave higher than indicated;
- (2) If a figure is below the line, then it is played by the left hand (see p. 5 of the treatise);
- (3) In all other contexts, the line indicates that the previous interval remains held into the following chord.

♂ indicates the addition of fifth tone in a chord containing a unison between two other voices (see p. 26 of the treatise).

✦ stands for a dubious progression (see p. 26 of the treatise).

NB. indicates a voice crossing (see p. 30 of the treatise). There are some instances where a voice-crossing is not marked, but would be necessary in order to prepare a dissonance in the same voice or to maintain smoother voice leading. Such instances are marked in Appendices 1 and 2 with a dotted line or via the stem direction.

> and < indicate the arrival at or departure from a unison, respectively.

A slur in the bass (e.g. Example 19.2) seems to indicate that the upper voices hold during a bass passing note, but Gugl does not comment on this symbol.

4.2

The exercise consists of five measures. The first measure has a treble clef with a C-clef and a bass clef with an F-clef. The first three measures are in a 4-part setting, and the last two are in a 3-part setting. The notation includes chord symbols and figured bass notation.

Mit 4. Stimmen.
[With 4. voices.]

Selten.
[Seldom.]

Mit 3. Stimmen.
[With 3. voices.]

4.3

The exercise consists of four measures, each with a different fingering indicated by a number above the treble staff. The notation includes chord symbols and figured bass notation.

Exercitium Concerti ordinartio, oder Perfect-Streiches.
[Exercise using the ordinary chord, or perfect chord.]

5 6 7 8 9

The exercise consists of five measures, each with a different fingering indicated by a number above the treble staff. The notation includes chord symbols and figured bass notation.

[Realize the figures as a single upper voice. The first tone is given]

6.2

The exercise consists of two systems of three measures each. The first system has figures: $\flat 3$, 2, 3, 2. The second system has figures: 3, 2, 3, 2. The notation shows a treble clef with a single melodic line and a bass clef with a single bass line. The first measure of each system starts with a given tone (F \flat and F respectively).

Verborgne Syncopation. [Hidden syncopations.]

The exercise consists of two systems of three measures each. The first system has figures: 3, 2, 3, 2. The second system has figures: 3, 2. The notation shows a treble clef with a single melodic line and a bass clef with a single bass line. The first measure of each system starts with a given tone (F and F respectively).

Offne Syncopation. [Apparent syncopations.]

6.5

The exercise consists of two systems of three measures each. The first system has figures: $\begin{matrix} 3 & 5 & 8 \\ - & 3 & 5 & 8 \end{matrix}$, $\begin{matrix} 6 & 6 \\ 4 & 3 & 5 & 1 \end{matrix}$, and $\begin{matrix} 5 \\ 3 & 3 & 1 \end{matrix}$. The second system has figures: $\begin{matrix} 3 & - & 2 & 3 \\ - & - & 6 & 6 \end{matrix}$, $\begin{matrix} 3 & 5 & 8 & \#3 \\ - & 5 & - & 8 \end{matrix}$, $\begin{matrix} 4 & 5 & \#3 \\ 2 & 3 & - \end{matrix}$, and $\begin{matrix} \#3 \\ 8 & - & 5 \end{matrix}$. The notation shows a treble clef with a single melodic line and a bass clef with a single bass line. The first measure of each system starts with a given tone (F and F respectively).

Exempel. [Example.]

The exercise consists of two systems of three measures each. The first system has figures: $\begin{matrix} 3 & 5 & 8 \\ - & 3 & 5 & 8 \end{matrix}$, $\begin{matrix} 4 & 5 & 8 \\ 2 & 3 & - \end{matrix}$, and $\begin{matrix} 5 \\ 3 & 3 & 1 \end{matrix}$. The second system has figures: $\begin{matrix} 3 & - & 2 & 3 \\ - & - & 6 & 6 \end{matrix}$, $\begin{matrix} 3 & 5 & 8 & \#3 \\ - & 5 & - & 8 \end{matrix}$, $\begin{matrix} 4 & 5 & \#3 \\ 2 & 3 & - \end{matrix}$, and $\begin{matrix} \#3 \\ 8 & - & 5 \end{matrix}$. The notation shows a treble clef with a single melodic line and a bass clef with a single bass line. The first measure of each system starts with a given tone (F and F respectively).

6 7 8

#3 6 [4]5 3
8 3 8
5 6 5 3 4 6 4 6 7 6 8 9 [-] 3 2 3 8 5
5 6 5 1 2 3 2 3 3 4 4 3 4 5 6 4 6 4 3 8

2 3 2 3

5 4 6 5 3 4 3 8 5 4 [b]5 4 3 5 8 9 10 9 8
3 2 3 3 8 2 6 5 3 3 2 3 2 1 4 3 4 5 4 3

6.6

2

8 - 2 3 8 4 # 8
3 - - 4 5 3 5 3 5 -
- - - - - # - - - - -

6.7

2 3

3 6 5 3 #2 4 5 # 8
8 4 3 8 #6 8 3 3 # 8
5 8 5 4 6 6 5 8 -
- - - - - # - - - - -

6.8

Figured bass notation for exercise 6.8:

Treble clef: 3 8 | 5 8 | 2 5 | 3 6 | 3 7 | 6 8 | 5 5 | 3 8 | 5 6 | 7 6 | 3 8

Bass clef: 5 3 | 2 3 | 5 3 | 5 | 8 5 | 5 6 | 8 | 3 5 8

Fingerings: 2, 3, 2

8.1

Figured bass notation for exercise 8.1:

Staff 1: 8 4 6 | 6 8 4 | 6 8

Staff 2: 4 6 8 | 4 4 6 | 4 6

Staff 3: 6 4 8 | 8 4 8

Staff 4: 4 6 8 | 4 8

Text below:

Mit 4. Stimmen. [With 4. voices.] Verdoppelte. [Doubled.] Mit 3. Stimmen. [With 3. voices.] Selten. [Seldom.]

Figured bass notation for exercise 8.1 (continued):

Treble clef: 5 5 | 6 4 | 5 3 | 8 6 | 4 8 | 3 6 | 6 4 | 5 3 | 8 5 | 6 5 | 5 6 | 5 5

Bass clef: 8 4 | 3 5 | 4 6 | 5 3 | 6 5 | 8 6 | 8 3 | 5 3 | 4 6 | 5 4 | 5 4 | 5 4

Fingerings: 2, 3

Figured bass notation for exercise 8.1 (continued):

Treble clef: 5 5 | 5 5 | 5 5 | 3 3 | 3 3 | 6 3 | 8 3 | 6 3 | 4 3 | 3 3 | 8 3

Bass clef: 8 5 | 5 5 | 3 5 | 6 5 | 5 5 | 3 5 | 3 5 | 6 5 | 5 5 | 3 5 | 3 5 | 3 5

Fingerings: 4, 5, 6, 7

8.2

Mit 4. Stimmen.
[With 4. voices.]

Selten. [Seldom.]

Mit 3. Stimmen.
[With 3. voices.]

8.3

3 6 5 3 6 b5 3 8 6 5 3 8 7 3 7 3 8

5 4 6 - 5 8 5 - 6 - 5 8 - 5

8.4

#4 2 #4 #4 2 #4 6 #4 #4 6

Mit 4. Stimmen.
[With 4. voices.]

Mit 3. Stimmen.
[With 3. voices.]

8 2 3 5 6 #4 8 6 5 # 6 #4 2 6 6 3 #4 2 8 5 4 8 # 3 5 8

Exempel. [Example.]

9.1

5 5 5 5 5 3 5 8

Malè.
[Bad.]

Benè.
[Good.]

5 8 3 7 8 5 3 1 3 6 3 5 6 3 5 8

8 7 5 3 3 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8

Exempel. [Example.]

9.2

5 6 5 6 5 6 7 6 8 5 8 5 8 7 5 6 7 6 8
 3 3 3 3 3 3 - 3 - - 3 - 3 3

9.3

Mit 4. Stimmen.
[With 4. voices.]

Mit 3. Stimmen.
[With 3. voices.]

2 3 4 5

8 2 3 5 3 3 5 3 3 3 3 3 3 3 3
 3 6 6 5 3 5 6 5 8 6 5 1 #2 5 #4 6 8 5 3 8

Exempel. [Example.]

6 7 8 9 10

5 6 8 3 5 5 6 5 3 4 4 3 8 8 8 8 8 8 8 8 8
 4 8 3 6 5 6 5 6 5 7 6 5 3 5 5 5 5 5 5 5 5

10.1

Diagram showing musical notation for the first system, including staves and chord symbols (e.g., 8 3 6, 6 8 3, 3 6 8, 3 6 8, 3 6 8, 6 3 6, 6 8 3, 6 8 3).

Mit 4. Stimmen.
[With 4. voices.]

Malè.
[Bad.]

Mit 3. Stimmen.
[With 3. voices.]

Musical score for measures 1-5, featuring a treble clef staff with notes and a bass clef staff with figured bass notation.

Exempel. [Example.]

Musical score for measures 6-10, continuing the piece with treble and bass staves.

Musical score for measures 11-15, concluding the piece with treble and bass staves.

11.1

7 3 5 8 3 7 3 7 3 7

5 7 3 7 7 3 7 3 7 3

5 7 3 3 7

Mit 4. Stimmen.
[With 4. voices.]

Mit 3. Stimmen.
[With 3. voices.]

2 3 4

3 3 3 6 7 3 8 #3 3 7 6 #3 7 3

5 3 5 3 5 6 8 5 3 5 8

Exempel. [Example.]

[NB.]

5 6 7 8

3 7 3 3 5 3 8 3 7 3 6 5 3 7 6

5 3 3 6 7 3 7 3 5 5 6 5 3 8 5 8 6 5 3 7 6 3

9 10 11 12

3 6 3 #3 3 5 #3 7 7 6 5 3 3 3

5 3 5 3 5 3 6 5 8 3 4 4 3 3 5

11.2

Nachgeschlagen.
[Struck after.]

Zugleich.
[Simultaneously.]

Mit 3. Stimmen. [With 3. voices.]

11.3

$\begin{matrix} \#7 & 2 & 4 \\ 4 & & \\ 2 & \#7 & \\ & 4 & \#7 \end{matrix}$

$\begin{matrix} \#7 & 2 \\ 2 & \#7 \end{matrix}$

Mit 4. Stimmen.
[With 4. voices.]

Mit 3. Stimmen.
[With 3. voices.]

Exempel. [Example.]

12.1

Malè.
[Bad.]

Malè.
[Bad.]

Benè.
[Good.]

Benè.
[Good.]

13.1

Two systems of musical notation. The first system has three staves with numbers 9, 3, 5. The second system has three staves with numbers 7, 11, 4. A third system has three staves with numbers 9, 3, 9.

Mit 4. Stimmen.
[With 4. voices.]

Mit 3. Stimmen.
[With 3. voices.]

Musical score for measures 1-4. Measure 1: Treble clef, C major, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 2: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 3: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 4: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Figured bass notation is provided below the bass staff.

Exempel. [Example.]

Musical score for measures 5-7. Measure 5: Treble clef, C major, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 6: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 7: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Figured bass notation is provided below the bass staff.

Musical score for measures 8-10. Measure 8: Treble clef, C major, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 9: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Measure 10: Treble clef, notes G4, A4, B4, C5. Bass clef, notes C3, E3, G3. Figured bass notation is provided below the bass staff.

11 12 13

5 8 5 8 3 9 8 7 5 3 5 3 5 6 8
 3 6 4 3 3 6 4 3 6 3 3 3 > 3 3 3 3 3
 #9 6 4 #3 9 6 4 3 6 3 3 3 3 3 3 3 3

14 15 16

[NB.] [NB.] [NB.]
 5 6 5 6 6 8 5 6 5 6 5 8 5 3 5 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
 9 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

17 18 19

[NB.]
 7 6 6 4 5 6 4 3 5 3 5 3 5 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

[*This chord has only three notes.]

20 21 22

[NB.]
 3 6 3 3 3 9 3 6 4 3 3 3 3 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

14.1

N. 1.

Exempel. Erste Manier/ anderte/ dritte/
[Example.] [First manner/] [second/] [third/]

14.2

Erste Manier.
[First manner.]

[Editorial addition of the remaining two positions:]

anderte/ dritte/
[second/] [third/]

14.3

N. 2.

Erste Manier.
[First manner.]

[*5/3/8 may be a better position.]

[Editorial addition of the remaining two positions:]

anderte/
[second/]

dritte/
[third/]

14.4

Erste Manier/
[First manner/]

Anderte Manier.
[Second manner.]

Dritte Manier.
[Third manner.]

14.5

Musical notation for the first system of exercise 14.5. The bass line contains fingerings 4 3, 4 3, and 4 # [#]. The treble staff is empty.

Musical notation for the second system of exercise 14.5. The bass line contains fingerings 4 3, 4 3, and 4 b b. The treble staff is empty.

Musical notation for the third system of exercise 14.5. The bass line contains fingerings 6 5, 4 # #, and 4 #. The treble staff contains complex chordal figures with fingerings 3 8 6 5, 8 5 3 4 # 3, and 5 3 8 5.

Musical notation for the fourth system of exercise 14.5. The bass line contains fingerings 4 #, 4 3, and 6 4 3. The treble staff is empty.

4 # # 7 4 3 b 6 4 #

14.6

N. 3.

Erste Manier.
[First manner.]

Anderte.
[Second.]

Dritte.
[Third.]

14.7

Erste Manier.
[First manner.]

[Editorial addition of the remaining two positions:]

Anderte.
[Second.]

Dritte.
[Third.]

14.8

Erste/
[First.]

Anderte/
[Second]

Dritte/
[Third]

14.9

[*Presumably the left hand should play this pitch.]

[Editorial addition of the remaining two positions:]

14.10

System 1: Treble clef, key signature of one flat (B-flat). Bass clef. Fingering: 7 6 5 (first measure), 5 6 (second measure), ♭ 4 ♭ (third measure).

System 2: Treble clef, key signature of two sharps (F# and C#). Bass clef. Fingering: 6 (first measure), 7 # 6 5 # 4 # (second measure), [6] ♭ (third measure), 7 # 6 5 (fourth measure).

System 3: Treble clef, key signature of one sharp (F#). Bass clef. Fingering: 6 7 6 5 (first measure), # 4 # (second measure), 6 5 (third measure), 5 6 5 4 3 (fourth measure).

System 4: Treble clef, key signature of one flat (B-flat). Bass clef. Fingering: 3 4 3 (first measure), 7 # 6 5 (second measure).

System 5: Treble clef, key signature of three sharps (F#, C#, G#). Bass clef. Fingering: 6 # 4 # (first measure), ♭ 4 ♭ (second measure), 7 6 5 (third measure).

14.11

Musical notation for exercise 14.11. The piece is in G major (one sharp). The treble clef staff contains chords and melodic lines, while the bass clef staff contains a single-line bass line. The figured bass notation is as follows:

5	3	4	8	#	#	6	6	5	4	#
---	---	---	---	---	---	---	---	---	---	---

Quarti Toni. [Mode four.]

Musical notation for exercise 14.11, continuing from the previous system. The treble clef staff contains chords and melodic lines, while the bass clef staff contains a single-line bass line. The figured bass notation is as follows:

#	3	5	7	4	5	5	3	8	7	3	#	4	5
---	---	---	---	---	---	---	---	---	---	---	---	---	---

14.12

Musical notation for exercise 14.12. The piece is in F major (one flat). The treble clef staff contains chords and melodic lines, while the bass clef staff contains a single-line bass line. The figured bass notation is as follows:

3	5	4	#	[6]	9	8	4	#
---	---	---	---	-----	---	---	---	---

Septimi Toni. [Mode seven.]

Musical notation for exercise 14.12, continuing from the previous system. The treble clef staff contains chords and melodic lines, while the bass clef staff contains a single-line bass line. The figured bass notation is as follows:

6	5	6	#	3	5	6	#	6	3	3	6	3	5
---	---	---	---	---	---	---	---	---	---	---	---	---	---

[NB.]

14.13

Musical score for exercise 14.13, consisting of three measures. The first measure is labeled 'Erste Manier. [First manner.]' and contains the figured bass notation: 5 | 3 8 3 | 3 | 6 | 5 8 3. The second measure is labeled 'Anderte. [Second.]' and contains: 8 3 5 | 7 8 3 | 6 | 8 3. The third measure is labeled 'Vel. [Or.]' and contains: 8 3 5 | 7 3 | 6 | 5 8 3. A dotted line connects the 7 in the first measure of the third measure to the 7 in the second measure of the same measure.

Erste Manier.
[First manner.]

Anderte. [Second.]

Vel. [Or.]

14.14

Musical score for exercise 14.14, consisting of two measures. The first measure is labeled 'Vel. [Or.]' and contains the figured bass notation: 5 | 3 8 3 | 7 8 3 | 6 | 5 8 3. A dotted line connects the 7 in the second measure of the first measure to the 7 in the first measure of the second measure. The second measure is labeled 'Dritte. [Third.]' and contains: 8 3 5 | 7 3 | 6 | 8 3 5.

Vel. [Or.]

Dritte. [Third.]

Musical score for exercise 14.14, consisting of three measures. The first measure is labeled 'Erste. [First.]' and contains the figured bass notation: 5 | 3 8 3 | 6 7 | 6 | 5 8 3. The second measure is labeled 'Anderte. [Second.]' and contains: 8 3 5 | 6 3 | 7 3 | 6 | 5 8 3. The third measure is labeled 'Dritte. [Third.]' and contains: 8 3 5 | 6 3 | 7 3 | 6 | 5 8 3.

Erste. [First.]

Anderte. [Second.]

Dritte. [Third.]

14.15

System 14.15, measures 1-3. Treble clef. Key signature: one sharp (F#). Measure 1: Treble clef has a whole note chord (F#, A, C, E). Bass clef has a whole note chord (C, G, C). Measure 2: Treble clef has a half note chord (F#, A, C) and a half note chord (E, G, B). Bass clef has a whole note chord (C, G, C). Measure 3: Treble clef has a whole note chord (F#, A, C, E). Bass clef has a whole note chord (C, G, C).

System 14.15, measures 4-6. Treble clef. Key signature: two sharps (F#, C#). Measure 4: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C). Measure 5: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C). Measure 6: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C).

System 14.15, measures 7-9. Treble clef. Key signature: two sharps (F#, C#). Measure 7: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C). Measure 8: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C). Measure 9: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C).

System 14.15, measures 10-12. Treble clef. Key signature: two sharps (F#, C#). Measure 10: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C). Measure 11: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C). Measure 12: Treble clef has a whole note chord (F#, A, C, E) and a whole note chord (C#, E, G, B). Bass clef has a whole note chord (C, G, C).

15.1

15.2

Die Noten können unterschiedlich seyn.
[The note values can vary.]

15.3

Exercise 15.3 consists of two systems of music. The first system has two measures: the first measure contains a chord with fingerings 3, 8, 5 and a flat 7; the second measure contains a chord with fingerings 3, 8, 5 and a flat 5. The second system has two measures: the first measure contains a chord with fingerings 3, 8, 5 and a flat 7, followed by a slur over the next two notes; the second measure contains a chord with fingerings 3, 8, 5 and a flat 5, followed by a slur over the next two notes.

Erste/ [First/]

oder [or]

15.4

Exercise 15.4 consists of two systems of music. The first system has two measures: the first measure contains a chord with fingerings 5, 6; the second measure contains a chord with fingerings 5, 3. The second system has four measures: the first measure contains a chord with fingerings 5, 8; the second measure contains a chord with fingerings 6, 3; the third measure contains a chord with fingerings 5, 8; the fourth measure contains a chord with fingerings 6, 3.

Erste/
[First/]

anderte/
[second/]

dritte/
[third/]

oder [or]

15.5

Exercise 15.5 consists of two systems of music. The first system has three measures: the first measure contains a chord with fingerings 5, 6, 5; the second measure contains a chord with fingerings 5, 3; the third measure contains a chord with fingerings 5, 8. The second system has four measures: the first measure contains a chord with fingerings 5, 8; the second measure contains a chord with fingerings 6, 3; the third measure contains a chord with fingerings 5, 8; the fourth measure contains a chord with fingerings 6, 3.

Erste/
[First/]

anderte/
[second/]

dritte/
[third/]

oder [or]

oder [or]

16.1

6 5 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5

mi, fa, Erste/ [First/ anderte/ [second/ dritte/ [third/ oder [or] mi, fa,

[NB.]

16.2

6 $b5$ 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5 | 6 3 8 5

6 6 6 6 6 6

6 $b5$ 6 $b5$ 6 $b5$ 6 $b5$ 6 $b5$ 6 $b5$

6 $[b5]$ 6 $b5$ $[6]$ $[5b]$ $[6]$ $[5b]$

[NB.]

16.3

Musical score for exercise 16.3, featuring a treble and bass clef. The treble clef has a key signature of one sharp (F#) and a common time signature. The bass clef has a key signature of two sharps (F# and C#) and a common time signature. The score consists of three measures. The first measure contains a treble clef with notes G4, A4, B4, and C5, and a bass clef with notes G2, A2, B2, and C3. The second measure contains a treble clef with notes D5, E5, F#5, and G5, and a bass clef with notes D3, E3, F#3, and G3. The third measure contains a treble clef with notes A5, B5, C6, and D6, and a bass clef with notes A3, B3, C4, and D4. Fingerings are indicated by numbers 1-5. A dotted line connects the G5 in the second measure to the G5 in the third measure. A dynamic marking 'v' is present in the second measure.

16.4

Musical score for exercise 16.4, featuring a treble and bass clef. The treble clef has a key signature of one sharp (F#) and a common time signature. The bass clef has a key signature of one sharp (F#) and a common time signature. The score consists of four measures. The first measure contains a treble clef with notes G4, A4, B4, and C5, and a bass clef with notes G2, A2, B2, and C3. The second measure contains a treble clef with notes D5, E5, F#5, and G5, and a bass clef with notes D3, E3, F#3, and G3. The third measure contains a treble clef with notes A5, B5, C6, and D6, and a bass clef with notes A3, B3, C4, and D4. The fourth measure contains a treble clef with notes E6, F#6, G6, and A6, and a bass clef with notes E4, F#4, G4, and A4. Fingerings are indicated by numbers 1-7. A dynamic marking 'v' is present in the third measure.

Musical score for exercise 16.5, featuring a treble and bass clef. The treble clef has a key signature of two sharps (F# and C#) and a common time signature. The bass clef has a key signature of two sharps (F# and C#) and a common time signature. The score consists of four measures. The first measure contains a treble clef with notes G4, A4, B4, and C5, and a bass clef with notes G2, A2, B2, and C3. The second measure contains a treble clef with notes D5, E5, F#5, and G5, and a bass clef with notes D3, E3, F#3, and G3. The third measure contains a treble clef with notes A5, B5, C6, and D6, and a bass clef with notes A3, B3, C4, and D4. The fourth measure contains a treble clef with notes E6, F#6, G6, and A6, and a bass clef with notes E4, F#4, G4, and A4. Fingerings are indicated by numbers 1-5.

16.5

Musical notation for the first system of exercise 16.5. The treble clef staff contains notes and chords, while the bass clef staff contains notes and figured bass. The figures are: # 5 6 #. The system concludes with a double bar line.

[NB.]

Musical notation for the second system of exercise 16.5. The treble clef staff contains notes and chords, while the bass clef staff contains notes and figured bass. The figures are: 5 7 6 #, 5 6 5 3 5 #, 5 6 5 3 5 #, and 5 7 6 5 3 5 #. The system concludes with a double bar line.

Musical notation for the third system of exercise 16.5. The treble clef staff contains notes and chords, while the bass clef staff contains notes and figured bass. The figures are: 5 7 6 5 3 5 #, 5 6 5 3 5 #, 5 6 5 3 5 #, and 5 7 6 5 3 5 #. The system concludes with a double bar line.

Musical notation for the fourth system of exercise 16.5. The treble clef staff contains notes and chords, while the bass clef staff contains notes and figured bass. The figures are: 5 7 6 5 3 5 #, 5 6 5 3 5 #, 5 6 5 3 5 #, and 5 7 6 5 3 5 #. The system concludes with a double bar line.

17.1

17.2

[NB.]

17.3

NB.

oder [or]

System 1: Treble and bass staves with figured bass notation. The key signature is two sharps (F# and C#). The bass line contains figures: 5 7 0 3, 3 5 1 0, 6, 5 1 0 3, [5 1 0 3], 5 7 0 3, 6, 5 1 0 3, 3 5 1 0, V 3 5 1, 6, 3 5 1 0, and 6.

18.1

System 2: Treble and bass staves with figured bass notation. The bass line contains figures: 5, 3 5 1 0, 3 5 1 0, 5 1 0 3, 3 5 1 0, # 3 5 1, 5, 5 1 0 3, 3 5 1 0, 5, 5 1 0 #, and 5 1 0 #.

System 3: Treble and bass staves with figured bass notation. The key signature changes to one sharp (F#). The bass line contains figures: 3 5 1 0, 3 5 1 0, 5, 5 1 0 3, 3 5 1 0, 3 5 1 0, 5 1 0 3, # 3 5 1, # 3 5 1, 3 5 1 0, 3 5 1 0, 7 5 1, 5, 3 5 1 0, 3 5 1 0, 5, 5 1 0 #, and 5 1 0 #.

à 3. [3 voices.]

System 4: Treble and bass staves with figured bass notation. The key signature is two sharps (F# and C#). The bass line contains figures: 3 5 1 0, 5 1 0 3, 3 5 1 0, 5 1 0 3, 3 5 1 0, 3 5 1 0, 6 3 5 1, 3 5 1 0, 8 5 4, 3, 6, 5, 9, and 8.

18.2

8 8 8 6 3 8 5 7 5 #4 6 6 3 8 5 6 5 #3 5 #4 6 6 8 8 6 3 8 5 7 #5 5

oder [or]

oder [or]

8 8 8 6 3 5 #4 6 8 6 8 5 #5 5 3 8 5 8 8 5 5 8 6 3 8 5 8 5 8 8 5

19.1

6 8 8 5 5 8 6 8 5 8 5 8 5 8 5 8 8 5 6 5 5 8 8 5 8 8 6 5 5 8 8

5 8 8 8 7 5 5 5 8 8 8 5 5 8 5 5 8 8 5 8 8 5 5 8 8 5 5 8 8 5 5 8 8 5 8 8 5 6

oder [or]

[*Doubling the 3 would avoid the parallel 5ths.]

[*]

oder [or]

à 3. [3 voices.]

19.2

Musical notation for exercise 19.2, showing a treble and bass clef system with figured bass notation and a repeat sign.

oder [or]

Musical notation for exercise 19.2, showing a treble and bass clef system with figured bass notation and a repeat sign.

oder [or]

oder [or]

20.1

Musical notation for exercise 20.1, showing a treble and bass clef system with figured bass notation and a repeat sign.

Oder mit zertheilten Griff.

[Or with multiple chords per bass note.]

Musical notation showing alternative chord voicings for exercise 20.1.

NB.

Musical notation for exercise 20.1, showing a treble and bass clef system with figured bass notation and a repeat sign.

System 1: Treble and bass staves with figured bass notation. The treble staff contains chords and single notes, while the bass staff contains a simple bass line. The system is divided into three measures by bar lines.

System 2: Treble and bass staves with figured bass notation. The treble staff contains chords and single notes, while the bass staff contains a simple bass line. The system is divided into three measures by bar lines.

System 3: Treble and bass staves with figured bass notation. The treble staff contains chords and single notes, while the bass staff contains a simple bass line. The system is divided into three measures by bar lines.

Allabreve.

21.1

System 1, measures 1-8. The score is in treble and bass clefs. The right hand plays chords and single notes, while the left hand plays a bass line. The notation includes various note values and rests, with some notes marked with a 'v' (accents).

System 2, measures 9-16. The score continues with treble and bass clefs. The right hand features more complex chordal textures and melodic lines, including some accidentals (sharps). The left hand continues with a steady bass line.

System 3, measures 17-24. The score concludes with treble and bass clefs. The right hand has dense chordal passages, and the left hand features a more active bass line with some sixteenth-note patterns.

22.1

The first system of music consists of two staves. The treble staff contains chords and melodic lines with figured bass notation (numbers 1-7) below it. The bass staff contains a bass line with figured bass notation (numbers 1-7) below it. The key signature is two sharps (F# and C#).

The second system of music consists of two staves. The treble staff contains chords and melodic lines with figured bass notation (numbers 1-7) below it. The bass staff contains a bass line with figured bass notation (numbers 1-7) below it. The key signature is two sharps (F# and C#).

The third system of music consists of two staves. The treble staff contains chords and melodic lines with figured bass notation (numbers 1-7) below it. The bass staff contains a bass line with figured bass notation (numbers 1-7) below it. The key signature is two sharps (F# and C#).

à 3. [3 voices.]

23.1

Musical score for system 23.1, featuring a treble and bass clef. The treble clef contains a series of chords and melodic lines, while the bass clef contains a bass line. The notation includes various rhythmic values and accidentals. The system is divided into four measures by bar lines.

Musical score for system 23.2, featuring a treble and bass clef. The treble clef contains a series of chords and melodic lines, while the bass clef contains a bass line. The notation includes various rhythmic values and accidentals. The system is divided into four measures by bar lines.

Musical score for system 23.3, featuring a treble and bass clef. The treble clef contains a series of chords and melodic lines, while the bass clef contains a bass line. The notation includes various rhythmic values and accidentals. The system is divided into four measures by bar lines.

24.1

Exercise 24.1, measures 1-4. The piece is in G major. The bass line starts with a half note G (labeled '5') and a half note A (labeled '6'). The right hand plays chords: G major (G-B-D), A major (A-C#-E), B major (B-D#-F#), and C# major (C#-E-G).

mi, fa,

24.2

Exercise 24.2, measures 5-8. The bass line continues with a half note D (labeled '5') and a half note E (labeled '6'). The right hand plays chords: D major (D-F#-A), E major (E-G#-B), F# major (F#-A-C#), and G major (G-B-D).

Exercise 24.2, measures 9-12. The key signature changes to E minor. The bass line continues with a half note F# (labeled '5') and a half note G (labeled '6'). The right hand plays chords: F# minor (F#-A-C), G minor (G-B-D), A minor (A-C-E), and B minor (B-D-F).

Exercise 24.2, measures 13-16. The key signature changes to D major. The bass line continues with a half note A (labeled '5') and a half note B (labeled '6'). The right hand plays chords: A major (A-C#-E), B major (B-D#-F#), C# major (C#-E-G), and D major (D-F#-A).

Exercise 24.2, measures 17-19. The key signature changes to C major. The bass line continues with a half note C (labeled '6'), a half note D (labeled '6'), and a half note E (labeled '6'). The right hand plays chords: C major (C-E-G), D major (D-F#-A), and E major (E-G#-B).

24.3

oder [or] oder [or]

oder die erste
kan ein *Sext-*
Griff seyn.

[or the first
can be a 6th
chord.]

25.1

First system of exercise 25.1. It consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a sequence of chords and melodic lines. The bass staff contains a sequence of notes and rests. Fingerings are indicated by numbers 1-5. The system is divided into three measures by bar lines.

Second system of exercise 25.1. It consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a sequence of chords and melodic lines. The bass staff contains a sequence of notes and rests. Fingerings are indicated by numbers 1-5. The system is divided into two measures by a double bar line.

25.2

First system of exercise 25.2. It consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a sequence of chords and melodic lines. The bass staff contains a sequence of notes and rests. Fingerings are indicated by numbers 1-5. The system is divided into five measures by bar lines. The text "Solche seynd beede *perfect*. [Such chords are both perfect.]" is written in the treble staff.

oder [or]

oder [or]

Second system of exercise 25.2. It consists of two staves: a treble clef staff and a bass clef staff. The treble staff contains a sequence of chords and melodic lines. The bass staff contains a sequence of notes and rests. Fingerings are indicated by numbers 1-5. The system is divided into five measures by bar lines.

26.1

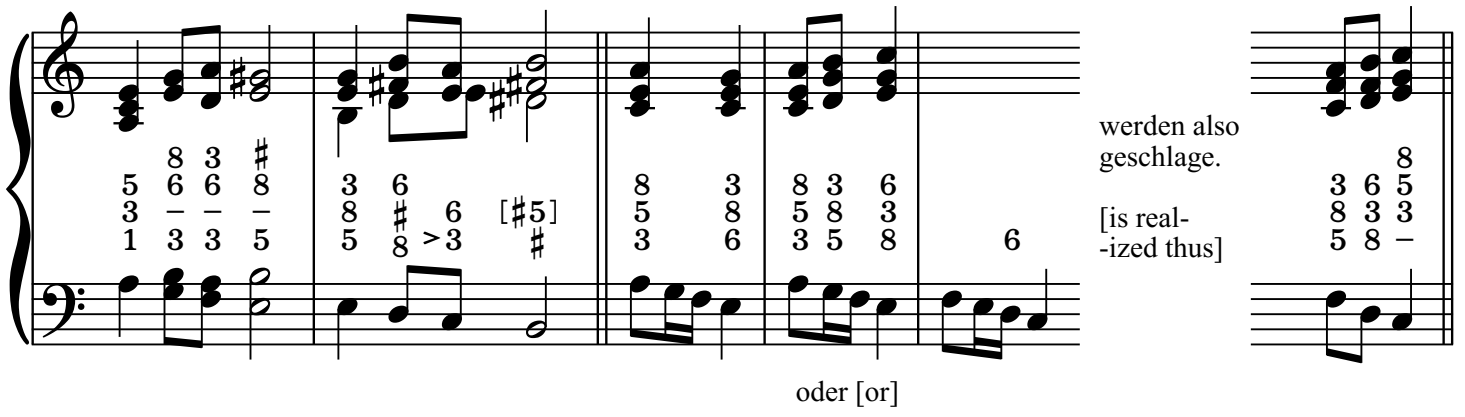
oder [or]

NB.

NB.

26.2

oder [or]

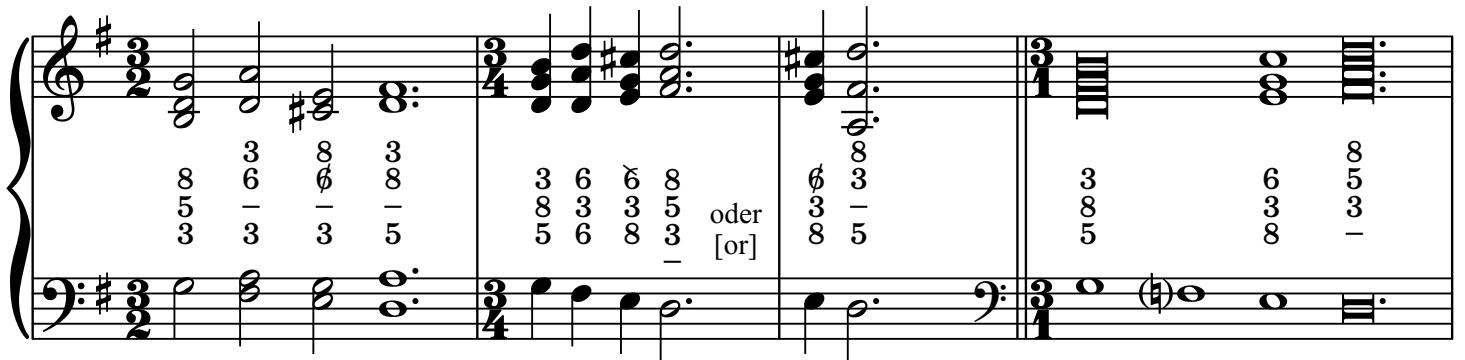


werden also geschlage.
[is realized thus]

oder [or]

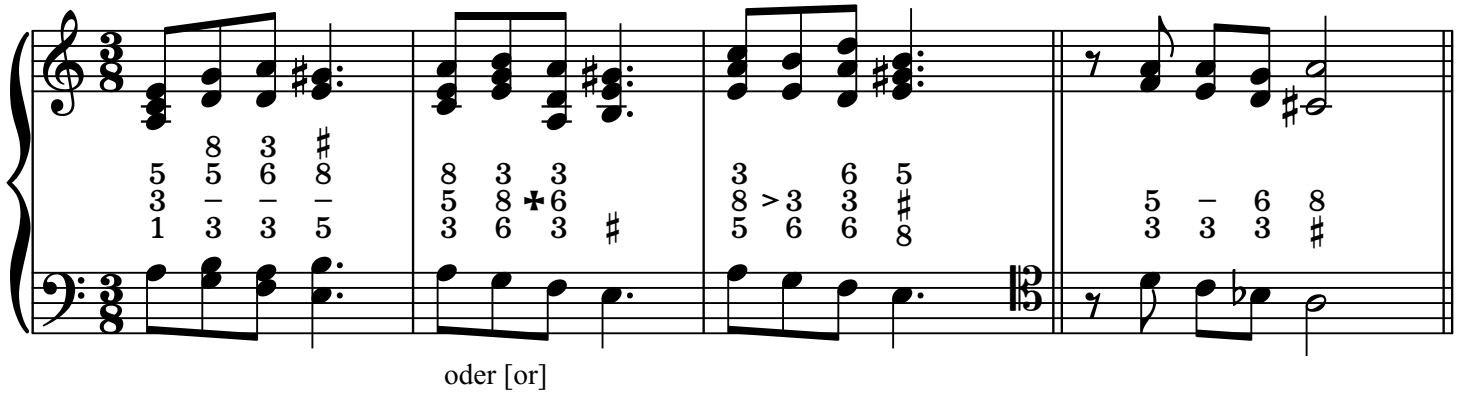
6

This system shows a musical score with two staves. The upper staff contains a treble clef and a key signature of one sharp (F#). The lower staff contains a bass clef. The score includes various musical notations such as notes, rests, and accidentals. A large bracket on the left side of the system indicates a specific editorial solution. The text "[is realized thus]" is placed below the upper staff, and "oder [or]" is placed below the lower staff. A small number "6" is located at the end of the system.



oder [or]

This system continues the musical score from the previous system. It features two staves with a treble clef and a key signature of one sharp. The notation includes notes, rests, and accidentals. A large bracket on the left side indicates an editorial solution. The text "oder [or]" is placed below the lower staff.



oder [or]

This system continues the musical score. It features two staves with a treble clef and a key signature of one sharp. The notation includes notes, rests, and accidentals. A large bracket on the left side indicates an editorial solution. The text "oder [or]" is placed below the lower staff.

3 5 1 0
3 6 3
5 0 3
0 3 5 1
3 6 #

5 3
5 3 6 7 6 0 #
5 3 6 0 #

30.1

5 6
6 7 6 7 6 #
5 3 1 3 5 6
5 0 3 6 7 6
7 6 # 5 0 #

30.2

5 0 3
6 3 6
7 3 8
6
0 5 1 0
5 0 3
0 3 6
3
5 1 0

5 0 3
0 3 5
6
0 5 1 0
5 0 3
0 3 5
6 4
8 6 3
5 0 3
6 3
5 4 3
5 0 3

31.1

5 6 6 7 6 6

oder 5 6
[or 5 6]

1 3 5 6 5 6 7 6 8 3 5 6 3 6 3 5

oder [or]

3 5 6 5 6 3 4 3 #

#

31.2

First system of musical notation for exercise 31.2. It consists of two staves: a treble staff and a bass staff. The treble staff contains a sequence of chords and melodic lines with various ornaments (trills, mordents, grace notes). Fingerings are indicated by numbers 1-7. The bass staff provides a simple harmonic accompaniment. The notation includes a repeat sign at the end of the system.

Second system of musical notation for exercise 31.2. It continues the piece with similar notation to the first system, including treble and bass staves, ornaments, and fingerings. The piece concludes with a final cadence in the treble staff.

Third system of musical notation for exercise 31.2. This system shows an alternative ending or variation, with different chord voicings and melodic lines in both staves compared to the previous systems. It also includes ornaments and fingerings.

oder
[or]

First system of a musical score in 3/4 time, featuring treble and bass staves. The key signature has one flat. The score includes musical notation and fingerings: 3 5 1 3, 3 3 3, 3 5 1, 3 3 3, 3 7 6, 3 3, 3 5 3, 5 3 3, 3 3 3, 3 3 3, 3 3 3, 3 3 3.

Second system of a musical score in 3/4 time, featuring treble and bass staves. The key signature has two sharps. The score includes musical notation and fingerings: 3 3 3, 3 3 3, 3 3 3, 3 3 3, 3 3 3, 3 3 3, 3 3 3, 3 3 3.

Third system of a musical score in 3/4 time, featuring treble and bass staves. The key signature has two sharps. The score includes musical notation, fingerings, and performance instructions: *oder [or]*, 6 3 3, 6 > 3, 3 5 1 3, *oder [or]*, 3 5 1 3, *NB.* 3 6 5 3, 5 5, 7 6.

32.1

5 6 5 5 ♯ ♯ 5 6 ♯

Terz-Sprung aufwärts.
[Ascending leaps of a third.]

6 ♯ 6 ♯ 5 5 5 6 5 ♯

Quart-Sprung.
[Leaps of a fourth.]

5 5 5 ♯ 5 b5 7 6 ♯

Quint-Sprung.
[Leaps of a fifth.]

Sext-Sprung.
[Leaps of a sixth.]

b6 ♯ 5 ♯ 5 b5 6 [6]

Sept-Sprung.
[Leaps of a seventh.]

32.2

A musical exercise for the left hand in bass clef, consisting of six measures. The notes are: 5, 5; 5, 6, 5; 6; 5; and #, 6. The notes are written as quarter notes on a single staff.

Terz-Sprung.
[Leaps of a third.]

Two musical exercises for the left hand in bass clef. The first exercise, *Quart-Sprung*, consists of six measures with notes: 5, 5; ♭; 6, 5; 5, 5; #; and ♭, 5. The second exercise, *Quint-Sprung*, consists of six measures with notes: 5, 5; #; ♭, 5; and #. The notes are written as quarter notes on a single staff.

Quart-Sprung.
[Leaps of a fourth.]

Quint-Sprung.
[Leaps of a fifth.]

Two musical exercises for the left hand in bass clef. The first exercise, *Sext-Sprung*, consists of six measures with notes: 5, 6, 6; 5; ♭, 5; ♭, 5; and 6, 5. The second exercise, *Sept-Sprung*, consists of six measures with notes: 5, 5; ♭, 5; ♭, 5; and 6, 5. The notes are written as quarter notes on a single staff.

Sext-Sprung.
[Leaps of a sixth.]

Sept-Sprung.
[Leaps of a seventh.]

32.3

The first system of exercise 32.3 consists of two staves. The treble staff is in G major (one sharp) and contains three measures of chords. The bass staff contains a sequence of eighth notes. Fingerings are indicated by numbers 1-5. A repeat sign is present after the first measure.

The second system of exercise 32.3 consists of two staves. The treble staff contains three measures of chords. The bass staff contains a sequence of eighth notes. Fingerings are indicated by numbers 1-5. A repeat sign is present after the first measure.

The third system of exercise 32.3 consists of two staves. The treble staff contains five measures of chords. The bass staff contains a sequence of eighth notes. Fingerings are indicated by numbers 1-5. A repeat sign is present after the first measure.

32.4

2 3 4

8 6 7 8 9 8 5 3
5 4 - 4 5 4 3 4 3
3 - - 2 3 5 4 3 8

5 6 7 8

3 8 8 6 5 4 3 3 6 5 6 8 3 3 3 3 3 3 6 8 3 7 3 3 3 6 4 3 1
7 6 - 4 3 3 3 3 3 3 4 6 7 3 8 5 6 5 5

à 3. [3 voices.]

à 4. [4 voices.]

9 10 11 12

6 7 6 5 3 8 7 6 5 3 3 8 7 6 7 6
4 3 3 9 8 5 3 3 1 5 6 7 6 7 6
8 5 5 5 3 8 6 3 3 1 - 6 7 6 7 6

13 14 15 16

7 6 8 7 6 4 3 2 5 7 4 3 2 3 NB.
6 8 7 6 [b]5 [3] 6 6 8 8
8 7 6 4 3 2 8 7 6 4 3 4 3 4 3

à 2. [2 voices.]

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31

32 33 34 35

Musical score for measures 32-35. The system consists of a grand staff with a treble clef and a bass clef. Measure 32 starts with a treble clef and a key signature of one sharp (F#). The bass line has a key signature of one sharp (F#). Fingerings are indicated by numbers 1-5. Measure 33 has a treble clef and a key signature of one sharp (F#). Measure 34 has a treble clef and a key signature of one sharp (F#). Measure 35 has a treble clef and a key signature of one sharp (F#). The bass line has a key signature of one sharp (F#).

36 37 38 39

Musical score for measures 36-39. The system consists of a grand staff with a treble clef and a bass clef. Measure 36 has a treble clef and a key signature of one sharp (F#). Measure 37 has a treble clef and a key signature of one sharp (F#). Measure 38 has a treble clef and a key signature of one sharp (F#). Measure 39 has a treble clef and a key signature of one sharp (F#). The bass line has a key signature of one sharp (F#).

40 41 42 43

Musical score for measures 40-43. The system consists of a grand staff with a treble clef and a bass clef. Measure 40 has a treble clef and a key signature of one sharp (F#). Measure 41 has a treble clef and a key signature of one sharp (F#). Measure 42 has a treble clef and a key signature of one sharp (F#). Measure 43 has a treble clef and a key signature of one sharp (F#). The bass line has a key signature of one sharp (F#).

44 45 46 47

Musical score for measures 44-47. The system consists of a grand staff with a treble clef and a bass clef. Measure 44 has a treble clef and a key signature of one sharp (F#). Measure 45 has a treble clef and a key signature of one sharp (F#). Measure 46 has a treble clef and a key signature of one sharp (F#). Measure 47 has a treble clef and a key signature of one sharp (F#). The bass line has a key signature of one sharp (F#).

48 49 50

7 3 8 3 7 8 3 8 1 1 3 3 5 6 8 3 3 6 6 4 3

51 52 53

3 3 5 9 8 8 5 4 3 #

54 55 56 57

3 5 3 6 5 #2 6 4 4 8 6 #3 5 6 5 # 6 3 # 3 b6

58 59 60 61

#3 7 5 8 6 5 4 6 4 4 8 b3 5 3 6 b [3] [6] 7

62 63 64

Handwritten musical score for measures 62, 63, and 64. The score is in C major, 3/4 time. Measure 62 starts with a treble clef and a 7-measure rest. Fingerings are indicated by numbers 1-5. Measure 63 continues the melodic line. Measure 64 features a trill on the G4 note, indicated by a bracketed '6' and a flat sign. Fingerings are provided for all notes.

65 66 67

Handwritten musical score for measures 65, 66, and 67. Measure 65 begins with a treble clef and a 4-measure rest. Measure 66 contains a melodic phrase with a trill on G4, marked with a bracketed '6' and a flat sign. Measure 67 continues with a melodic line. Fingerings are indicated throughout.

68 69 70

Handwritten musical score for measures 68, 69, and 70. Measure 68 starts with a treble clef and a 3-measure rest. Measure 69 features a melodic line with a trill on G4, marked with a bracketed '6' and a flat sign. Measure 70 concludes with a final chord. Fingerings are indicated for all notes.

32.5

Musical score for exercise 32.5, measures 1-4. The score is in treble and bass clefs. The bass line consists of quarter notes: G2, A2, B2, C3, D3, E3, F3, G3. The treble line consists of chords: G3-B3, G3-B3, A3-C#4, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3. The right-hand part has a repeat sign at the beginning of measure 4. Fingerings are indicated by numbers 1-5.

Musical score for exercise 32.5, measures 5-8. The bass line continues with quarter notes: G3, A3, B3, C4, D4, E4, F4, G4. The treble line has chords: G3-B3, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3. The right-hand part has a repeat sign at the beginning of measure 8. Fingerings are indicated by numbers 1-5.

32.6

Musical score for exercise 32.6, measures 1-4. The bass line consists of quarter notes: G2, A2, B2, C3, D3, E3, F3, G3. The treble line has chords: G3-B3, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3, G3-B3. The right-hand part has a repeat sign at the beginning of measure 4. Fingerings are indicated by numbers 1-5.