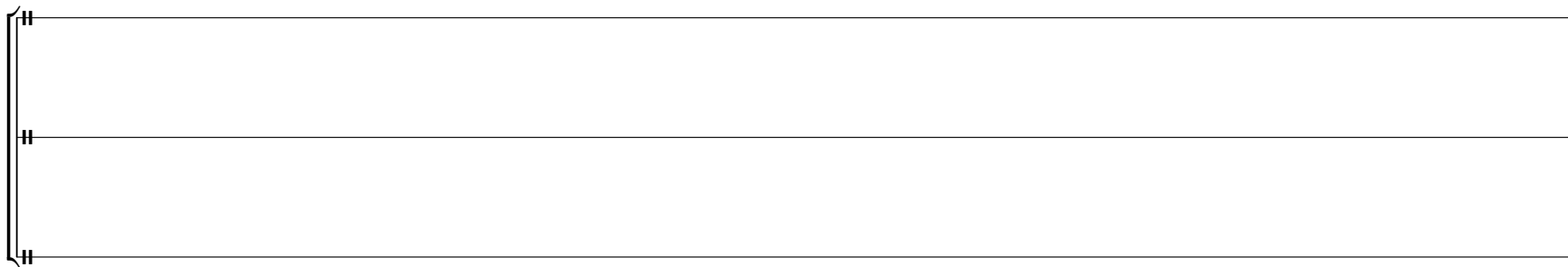
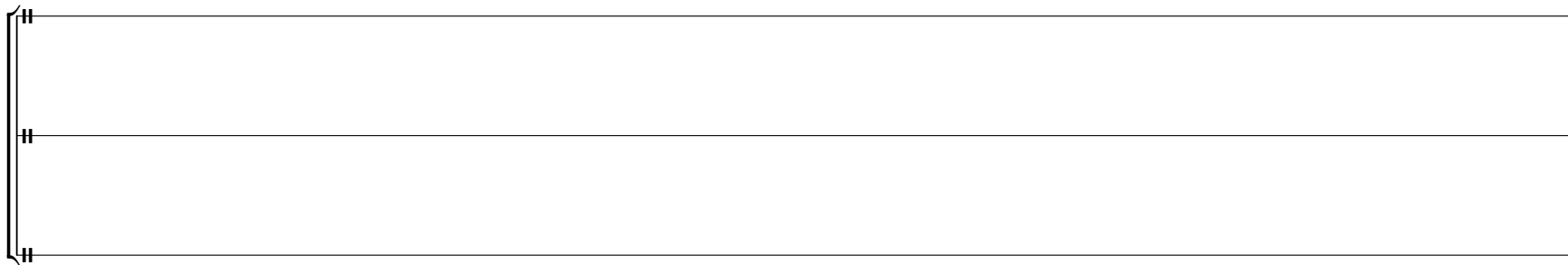


**AI** spans of time

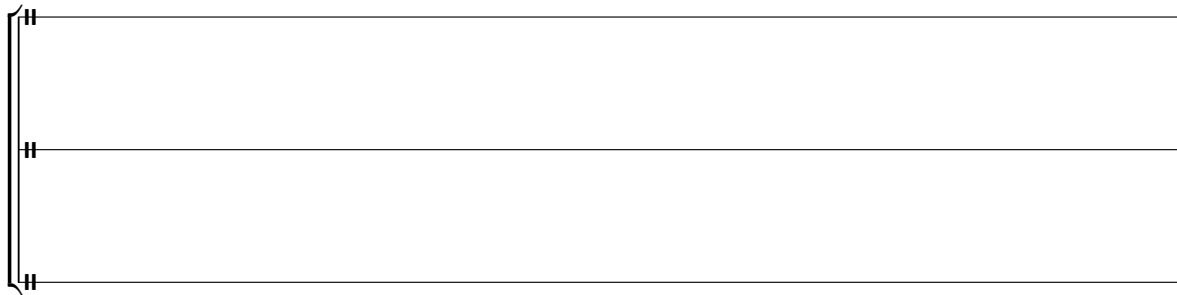
$\frac{2}{4}$  ♪ = 72



④



⑦



# AI spans of time

$\frac{2}{4}$  ♪ = 72

A musical staff system consisting of three staves. The first staff has a treble clef, and the second and third staves have bass clefs. Each staff contains three measures of music, each represented by a red bracket with a dashed line above it, indicating a span of time.

④

A musical staff system consisting of three staves. The first staff has a treble clef, and the second and third staves have bass clefs. Each staff contains three measures of music, each represented by a red bracket with a dashed line above it, indicating a span of time.

⑦

A musical staff system consisting of three staves. The first staff has a treble clef, and the second and third staves have bass clefs. Each staff contains two measures of music, each represented by a red bracket with a dashed line above it, indicating a span of time.

A musical staff system consisting of two staves. The first staff has a treble clef, and the second staff has a bass clef. Each staff contains two measures of music, each represented by a red bracket with a dashed line above it, indicating a span of time.

# AI spans of time

$\frac{2}{4}$  ♪ = 72

A musical staff system consisting of three staves. The top staff has a treble clef, and the bottom two staves have bass clefs. The system is divided into three measures by vertical bar lines. Each measure contains a red bracket spanning the width of the measure, with a dashed line above it.

A red bracket spanning the width of a measure, with a dashed line above it.

④

A musical staff system consisting of three staves. The top staff has a treble clef, and the bottom two staves have bass clefs. The system is divided into three measures by vertical bar lines. Each measure contains a red bracket spanning the width of the measure, with a dashed line above it.

A red bracket spanning the width of a measure, with a dashed line above it.

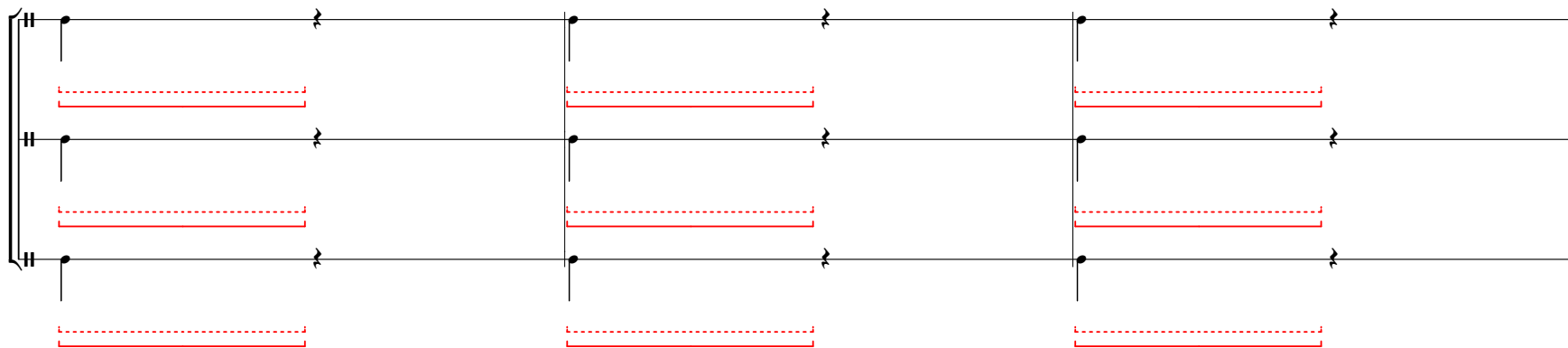
⑦

A musical staff system consisting of three staves. The top staff has a treble clef, and the bottom two staves have bass clefs. The system is divided into two measures by vertical bar lines. Each measure contains a red bracket spanning the width of the measure, with a dashed line above it.

A red bracket spanning the width of a measure, with a dashed line above it.

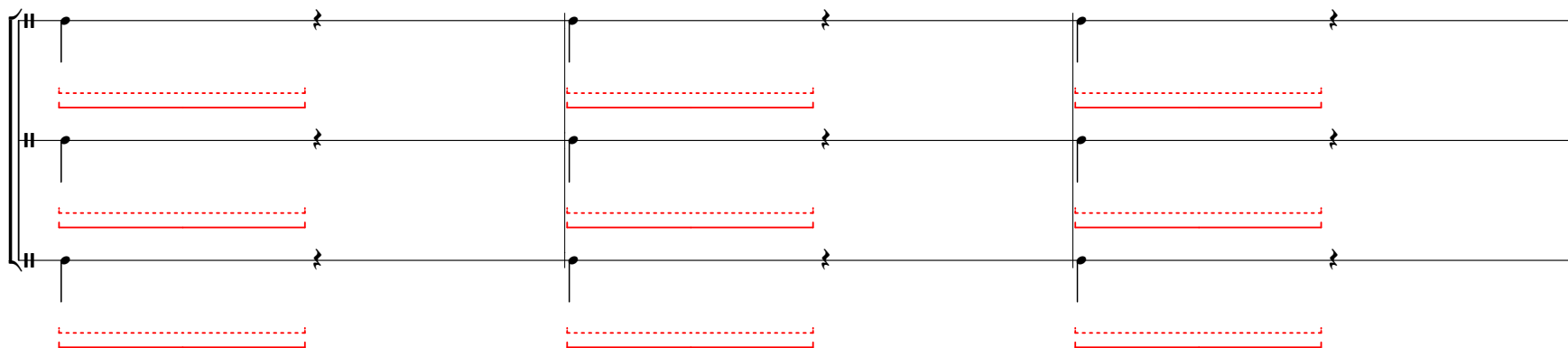
# AI spans of time

$\frac{2}{4}$  ♩ = 72



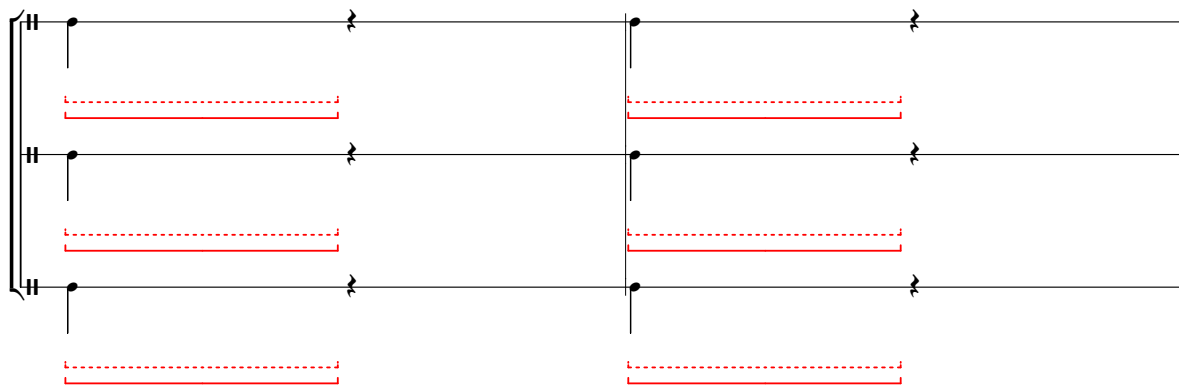
System 1: A musical score for three staves. Each staff begins with a double bar line and a key signature of one sharp (F#). The first staff has a treble clef, the second a soprano clef, and the third an alto clef. Each staff contains a single quarter note on the first line of the staff, followed by a fermata. Below each staff is a red bracket with a dashed line above it, indicating a span of time.

④



System 2: A musical score for three staves, identical to System 1. Each staff begins with a double bar line and a key signature of one sharp (F#). The first staff has a treble clef, the second a soprano clef, and the third an alto clef. Each staff contains a single quarter note on the first line of the staff, followed by a fermata. Below each staff is a red bracket with a dashed line above it, indicating a span of time.

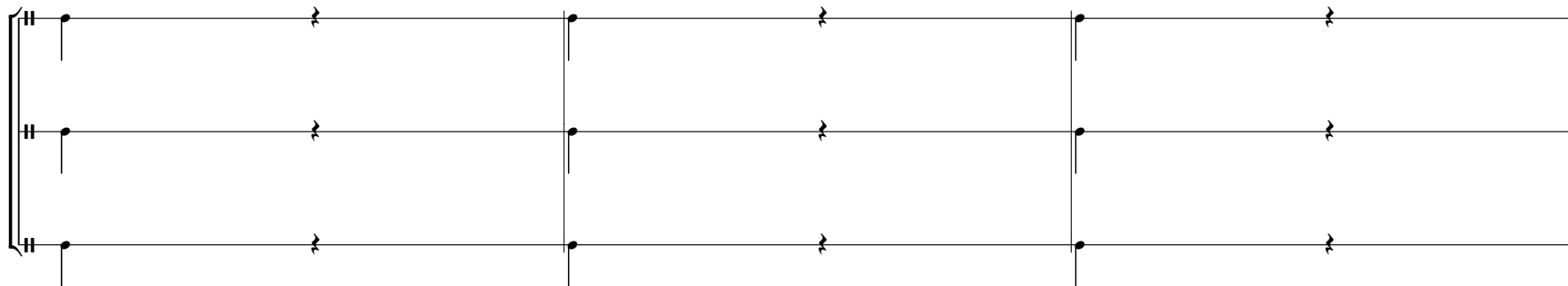
⑦



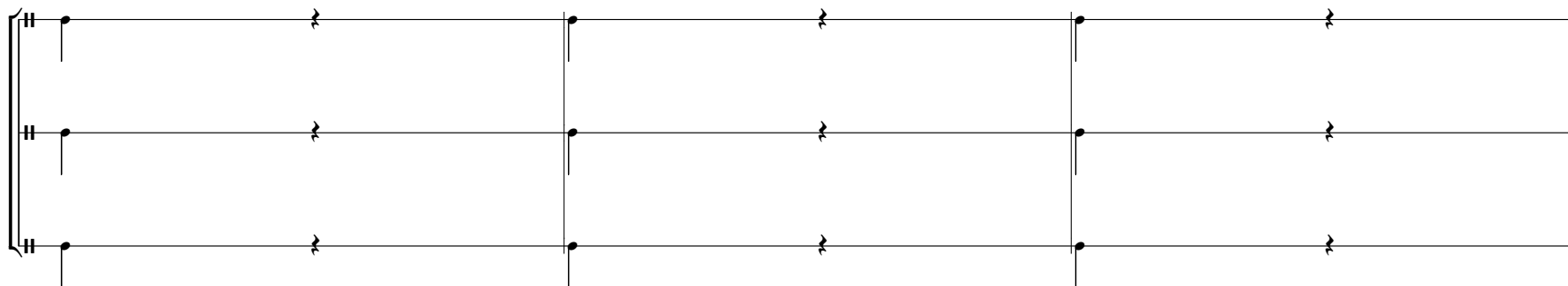
System 3: A musical score for three staves, identical to System 1. Each staff begins with a double bar line and a key signature of one sharp (F#). The first staff has a treble clef, the second a soprano clef, and the third an alto clef. Each staff contains a single quarter note on the first line of the staff, followed by a fermata. Below each staff is a red bracket with a dashed line above it, indicating a span of time.

# AI spans of time

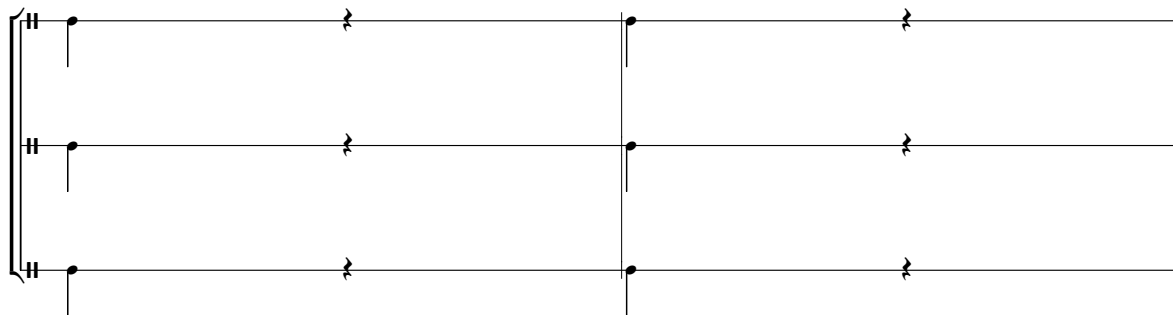
$\frac{2}{4}$  ♪ = 72



④



⑦

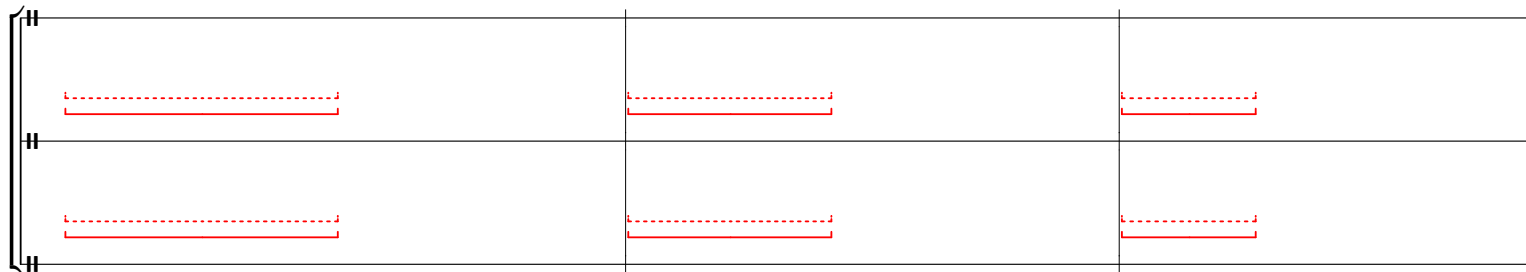


**A2** different performed durations: 1/4, 3/16 and 1/8

**2/4** ♩ = 72

**7/16**

**3/8**

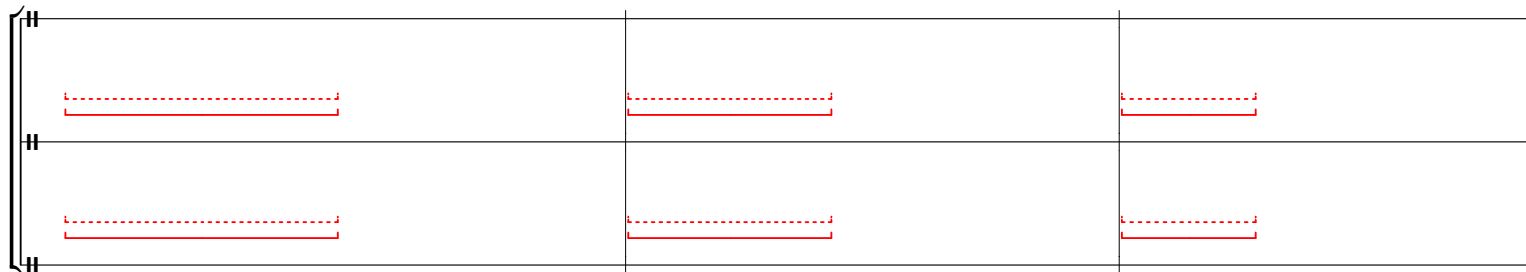


④

**2/4**

**7/16**

**3/8**

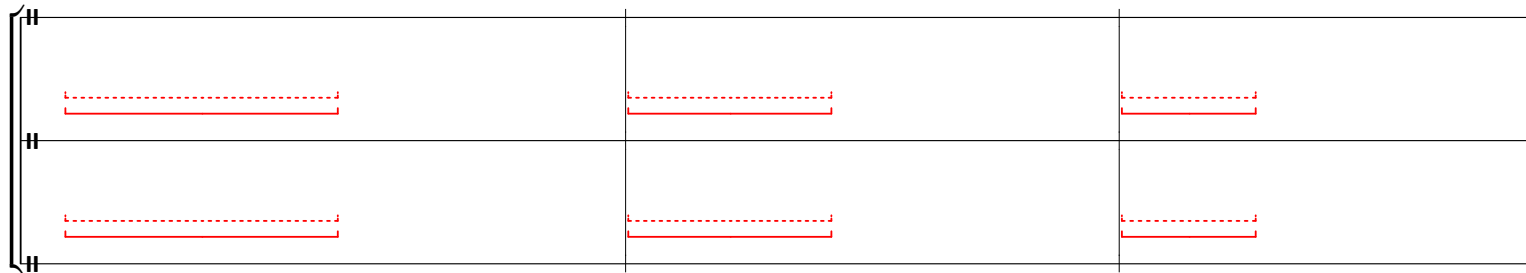


⑦

**2/4**

**7/16**

**3/8**



**A2** different performed durations: 1/4, 3/16 and 1/8

**2/4** ♩ = 72      **7/16**      **3/8**

System 1: Measures 1-3. Measure 1 (2/4) contains a half note on the top staff and a dotted half note on the bottom staff. Measure 2 (7/16) contains a dotted half note on the top staff and a dotted half note on the bottom staff. Measure 3 (3/8) contains a dotted half note on the top staff and a dotted half note on the bottom staff. Red dashed lines indicate the duration of the notes.

④ **2/4**      **7/16**      **3/8**

System 2: Measures 4-6. Measure 4 (2/4) contains a half note on the top staff and a dotted half note on the bottom staff. Measure 5 (7/16) contains a dotted half note on the top staff and a dotted half note on the bottom staff. Measure 6 (3/8) contains a dotted half note on the top staff and a dotted half note on the bottom staff. Red dashed lines indicate the duration of the notes.

⑦ **2/4**      **7/16**      **3/8**

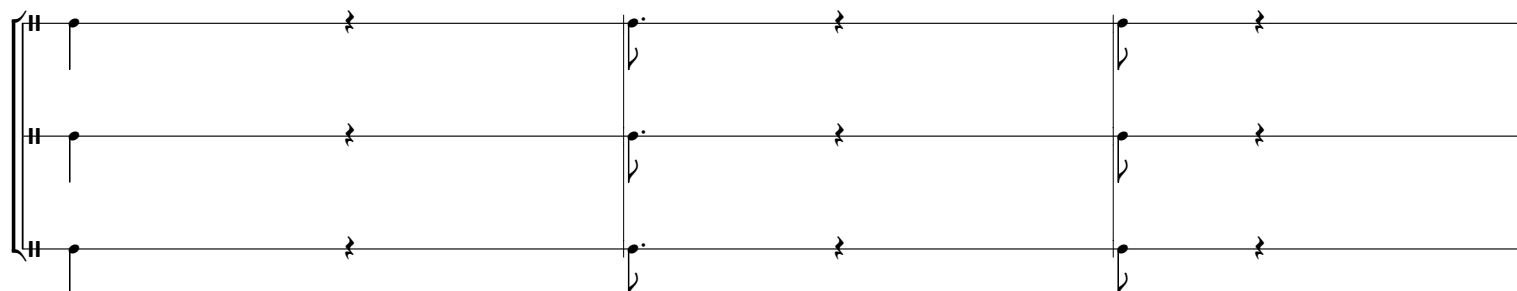
System 3: Measures 7-9. Measure 7 (2/4) contains a half note on the top staff and a dotted half note on the bottom staff. Measure 8 (7/16) contains a dotted half note on the top staff and a dotted half note on the bottom staff. Measure 9 (3/8) contains a dotted half note on the top staff and a dotted half note on the bottom staff. Red dashed lines indicate the duration of the notes.

**A2** different performed durations: 1/4, 3/16 and 1/8

$\frac{2}{4}$  ♪ = 72

$\frac{7}{16}$

$\frac{3}{8}$

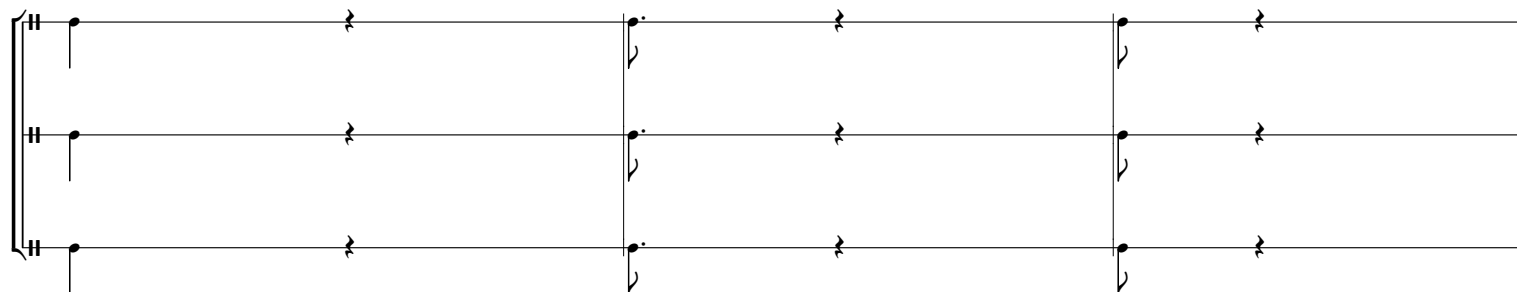


④

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{3}{8}$

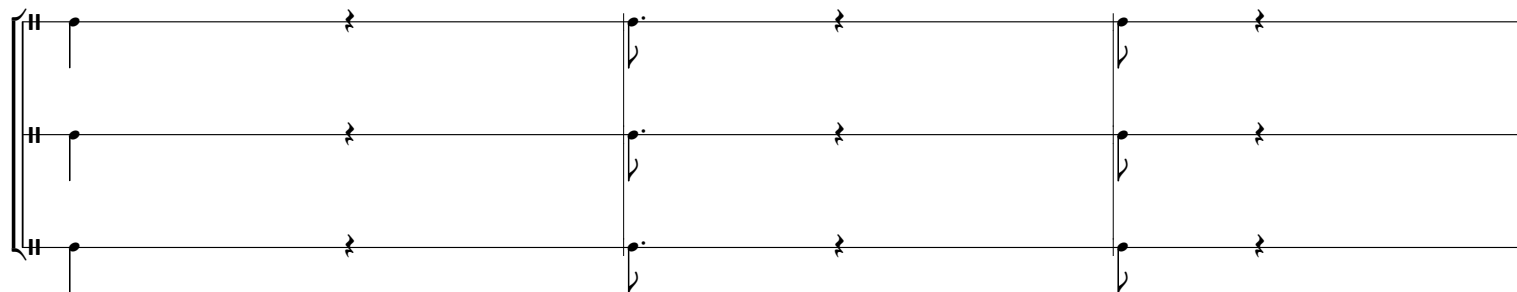


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{3}{8}$



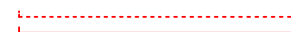
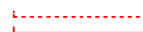
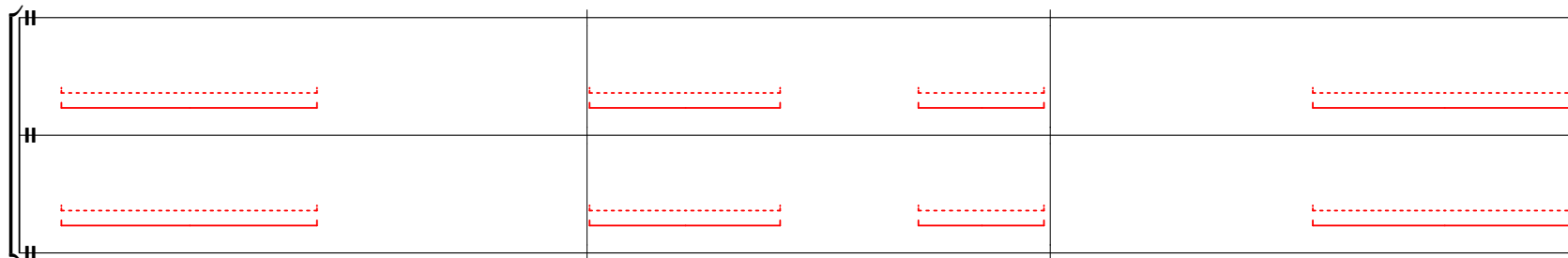


# A3 different silences: 1/4 and 1/8

$\frac{2}{4}$  ♪ = 72

$\frac{7}{16}$

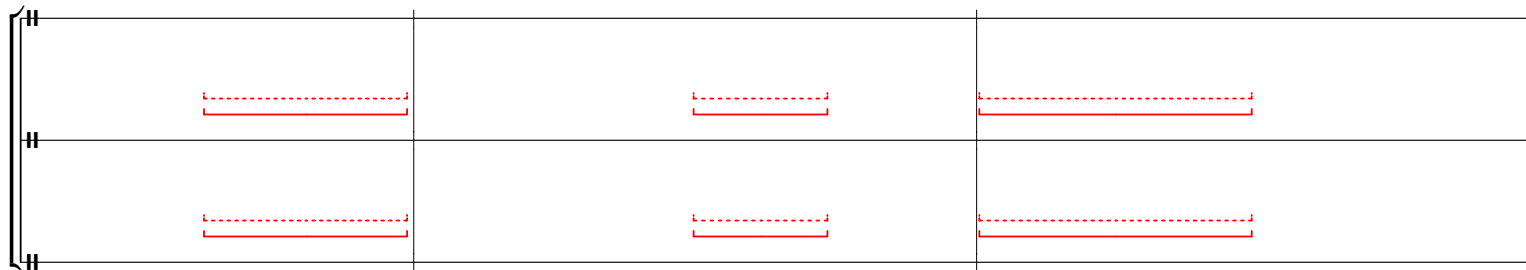
$\frac{2}{4}$



④

$\frac{5}{16}$

$\frac{2}{4}$

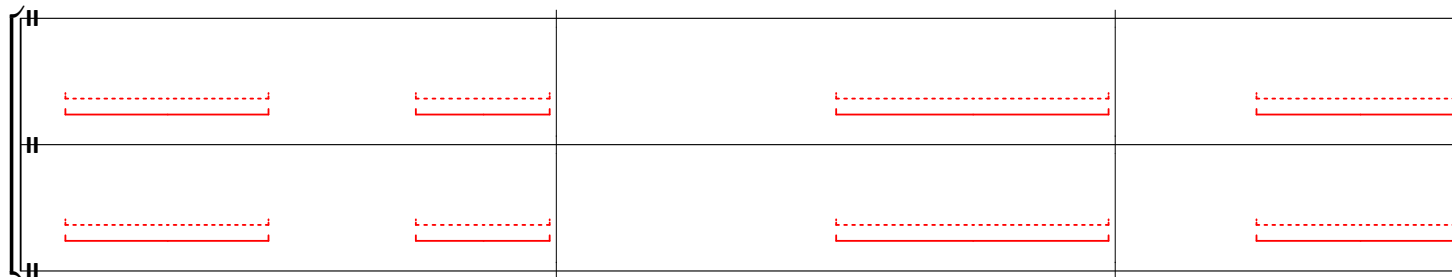


⑦

$\frac{7}{16}$

$\frac{2}{4}$

$\frac{5}{16}$



**A3** different silences: 1/4 and 1/8

**2/4** ♩ = 72

**7/16**

**2/4**

④

**5/16**

**2/4**

⑦

**7/16**

**2/4**

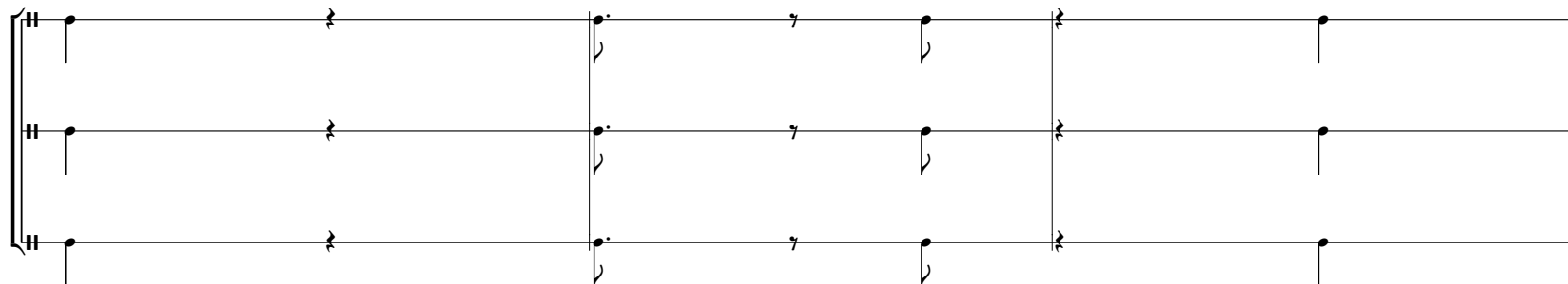
**5/16**

**A3** different silences: 1/4 and 1/8

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

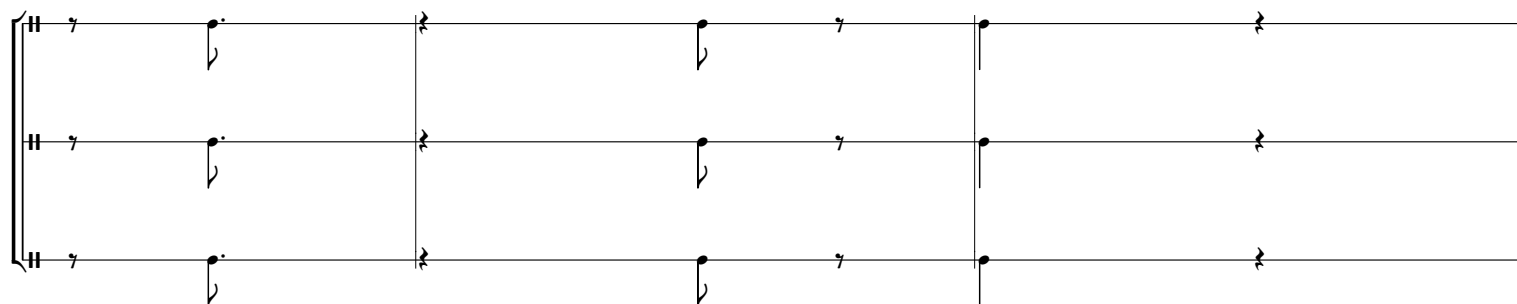
$\frac{2}{4}$



④

$\frac{5}{16}$

$\frac{2}{4}$

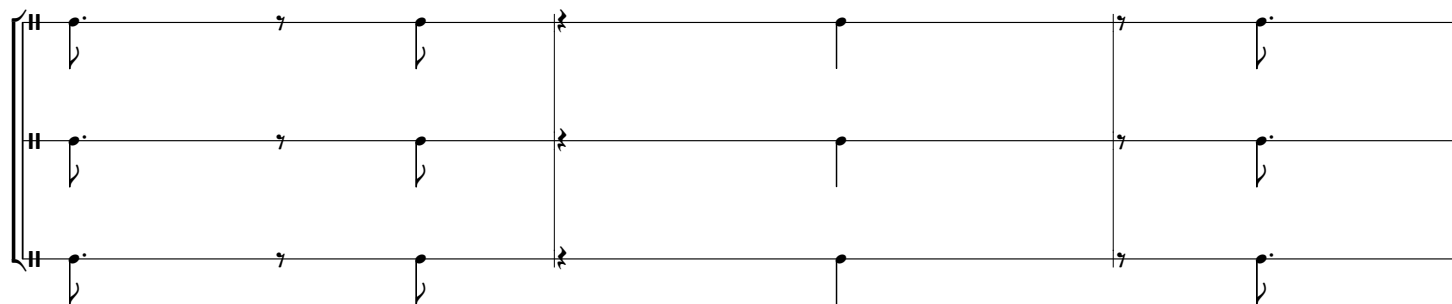


⑦

$\frac{7}{16}$

$\frac{2}{4}$

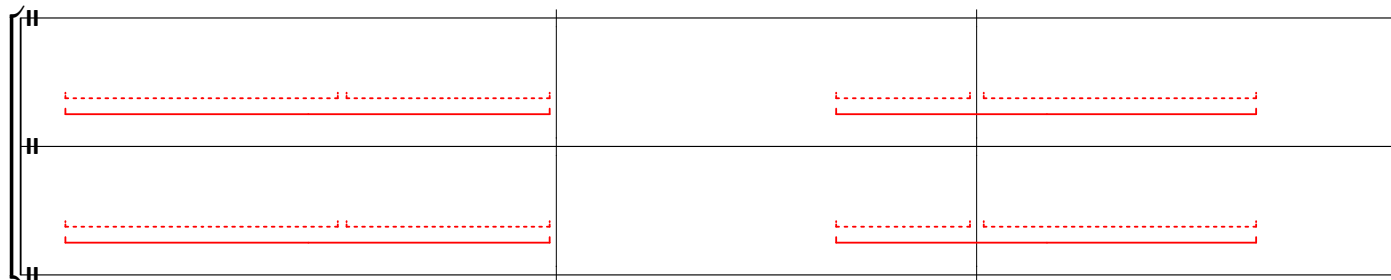
$\frac{5}{16}$



# A<sub>4</sub> grouping performed moments

$\frac{7}{16}$  ♪ = 72

$\frac{3}{8}$

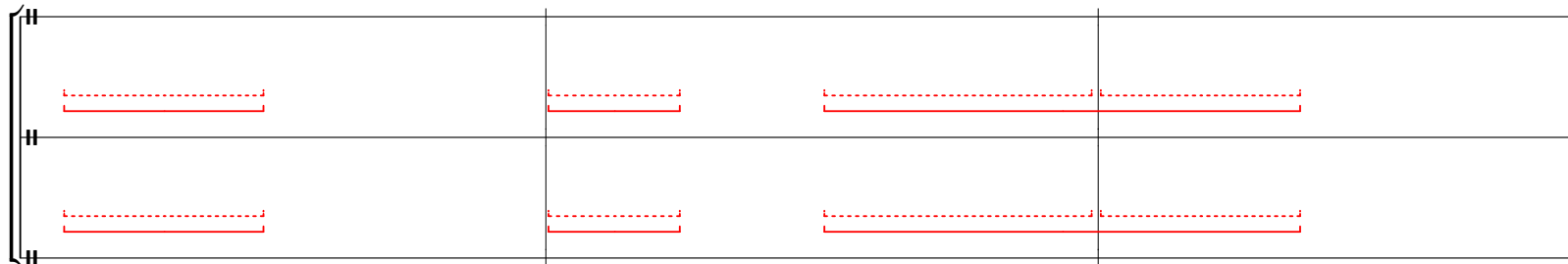


④

$\frac{7}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

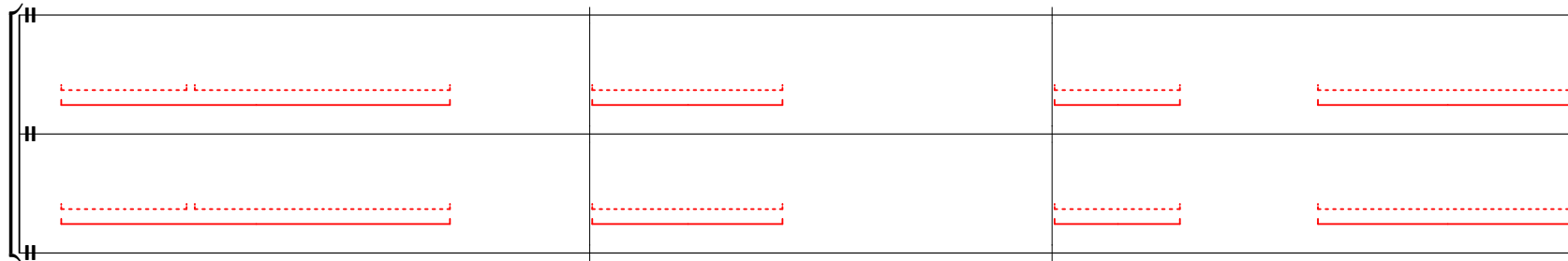


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# A<sub>4</sub> grouping performed moments

$\frac{7}{16}$  ♩ = 72  $\frac{3}{8}$

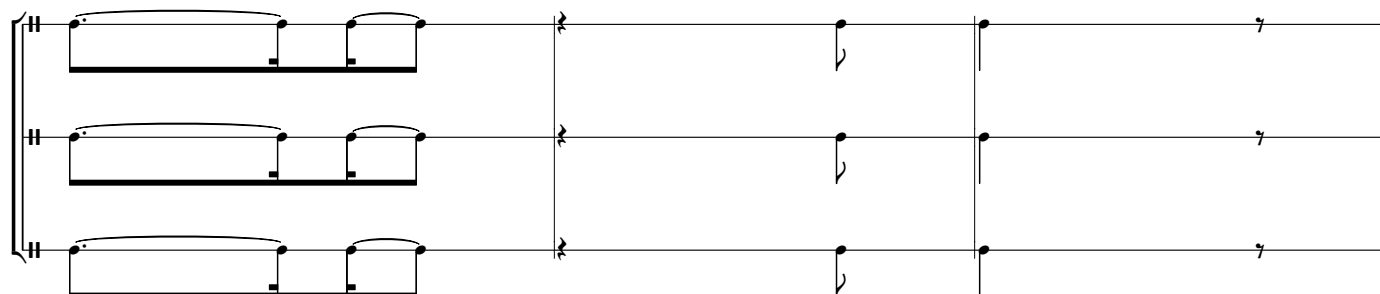
④  $\frac{7}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

# A<sub>4</sub> grouping performed moments

$\frac{7}{16}$  ♪ = 72

$\frac{3}{8}$

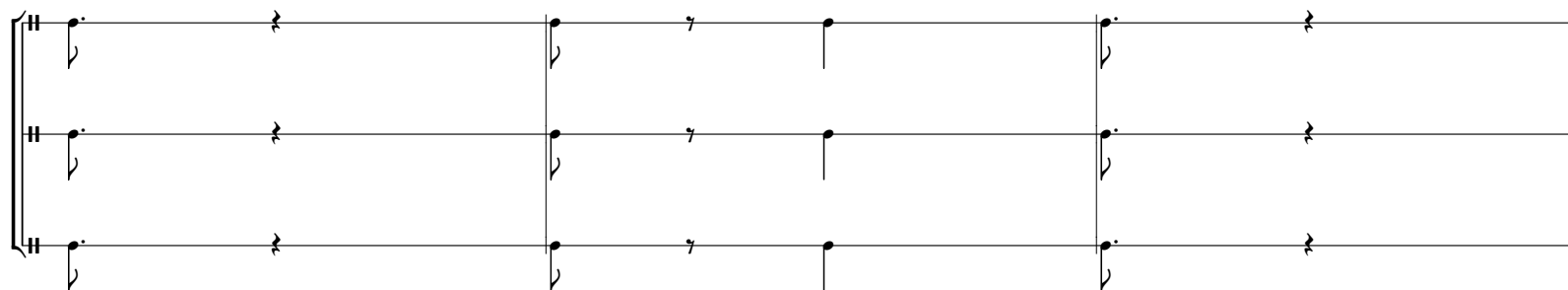


④

$\frac{7}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

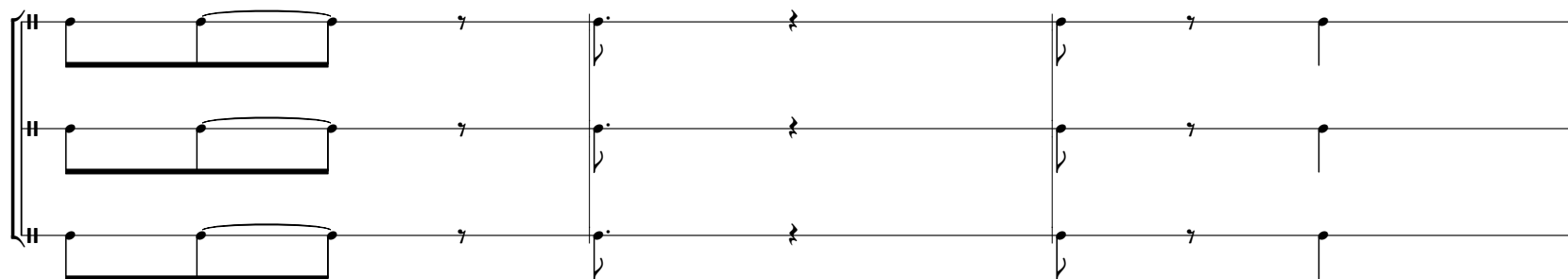


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# A5 adding initial silences

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

Exercise A5, measures 1-3. The staff shows three measures of music. Measure 1 is in 2/4 time and contains two measures of a dotted half note. Measure 2 is in 7/16 time and contains two measures of a dotted half note. Measure 3 is in 3/8 time and contains two measures of a dotted half note.

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

Exercise A5, measures 4-6. The staff shows three measures of music. Measure 4 is in 5/16 time and contains two measures of a dotted half note. Measure 5 is in 2/4 time and contains two measures of a dotted half note. Measure 6 is in 7/16 time and contains two measures of a dotted half note.

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

Exercise A5, measures 7-9. The staff shows three measures of music. Measure 7 is in 2/4 time and contains two measures of a dotted half note. Measure 8 is in 7/16 time and contains two measures of a dotted half note. Measure 9 is in 2/4 time and contains two measures of a dotted half note.

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

# A5 adding initial silences

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$   $\frac{3}{8}$

④

$\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

⑦

$\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

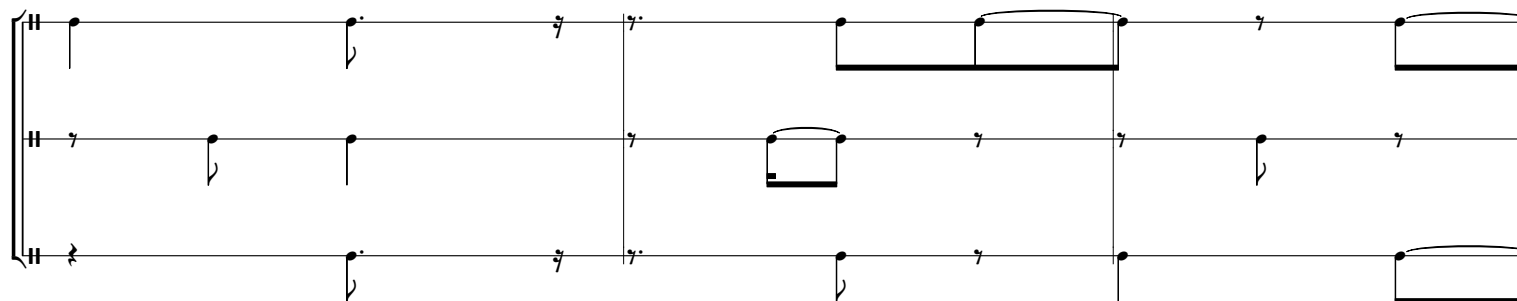


# A5 adding initial silences

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

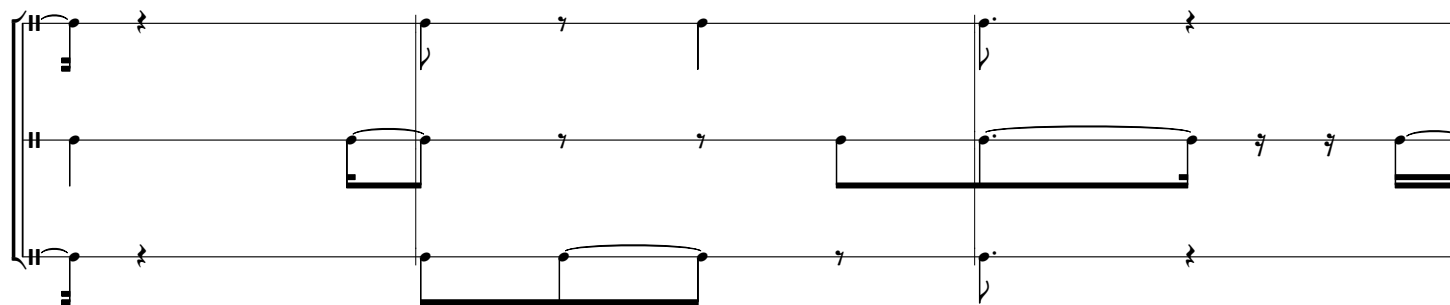


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

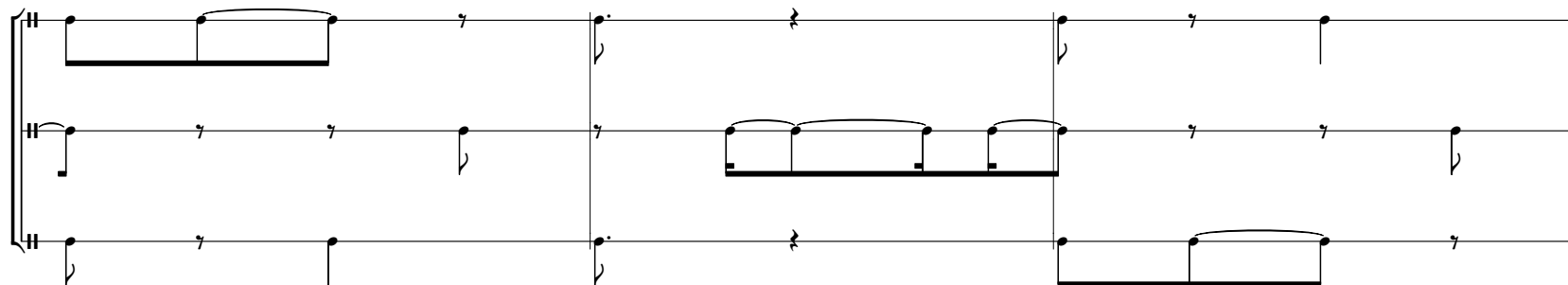


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

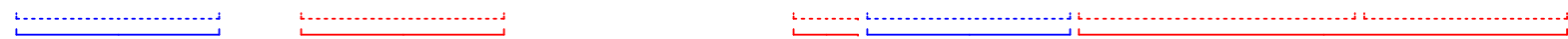
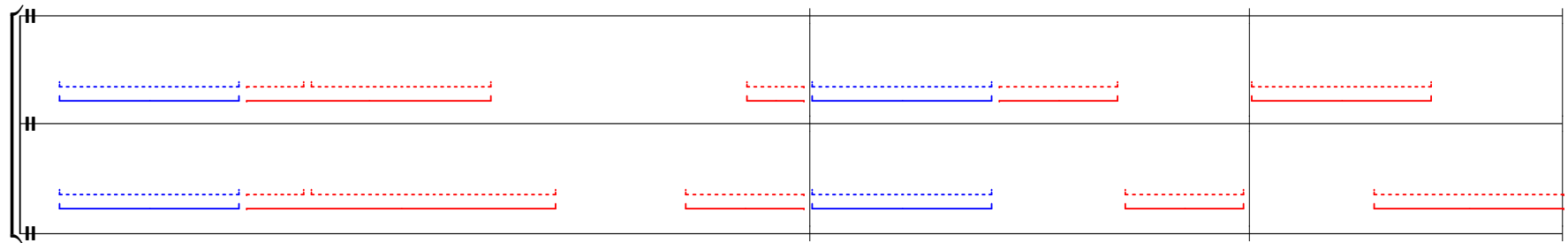


# A6 overlaying red timespans with blue

$\frac{3}{4}$  ♪ = 72

$\frac{7}{16}$

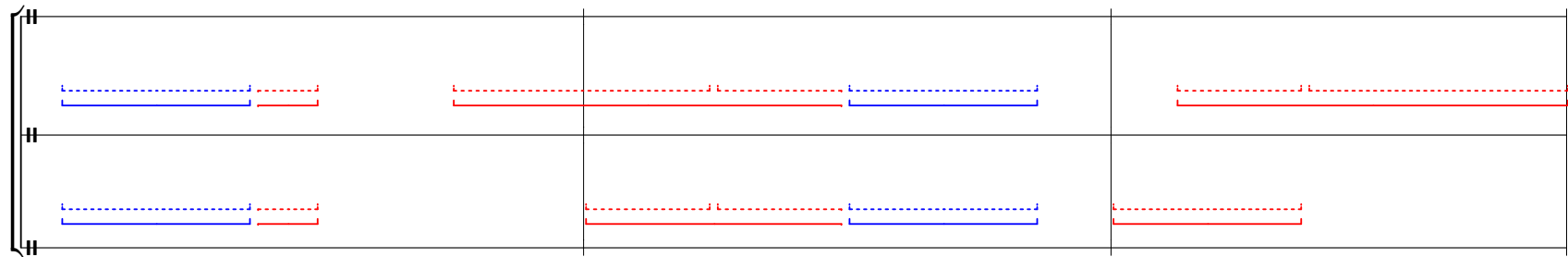
$\frac{5}{16}$



④

$\frac{2}{4}$

$\frac{7}{16}$

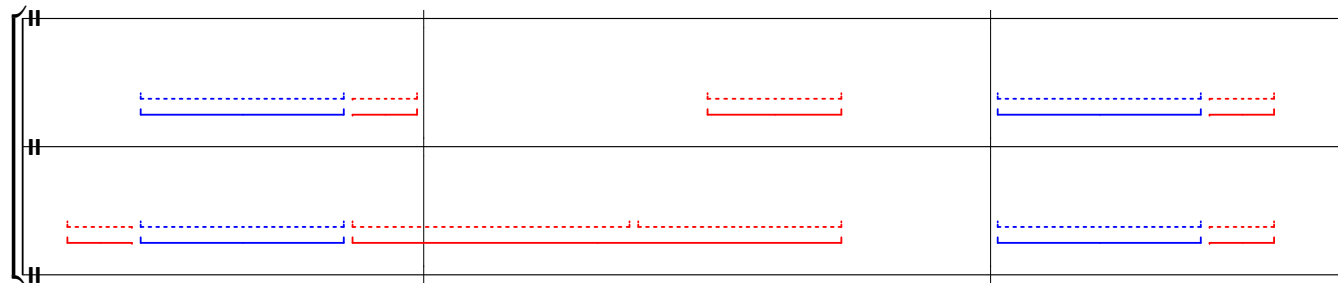


⑦

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{5}{16}$



# A6 overlaying red timespans with blue

$\frac{3}{4}$  ♩ = 72

④

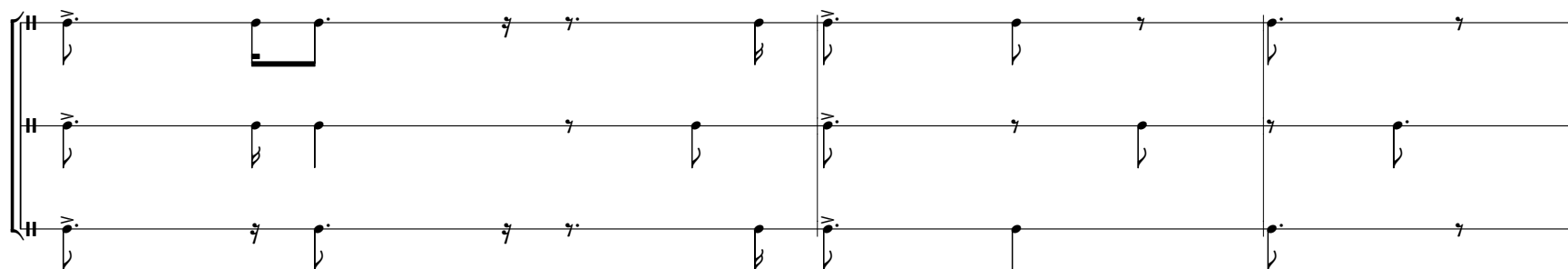
⑦

**A6** overlaying red timespans with blue

$\frac{3}{4}$  ♩ = 72

$\frac{7}{16}$

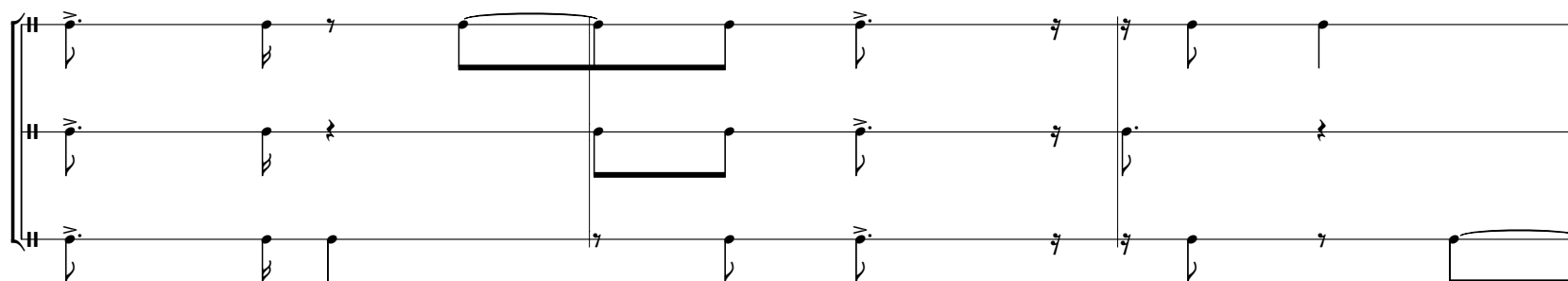
$\frac{5}{16}$



④

$\frac{2}{4}$

$\frac{7}{16}$

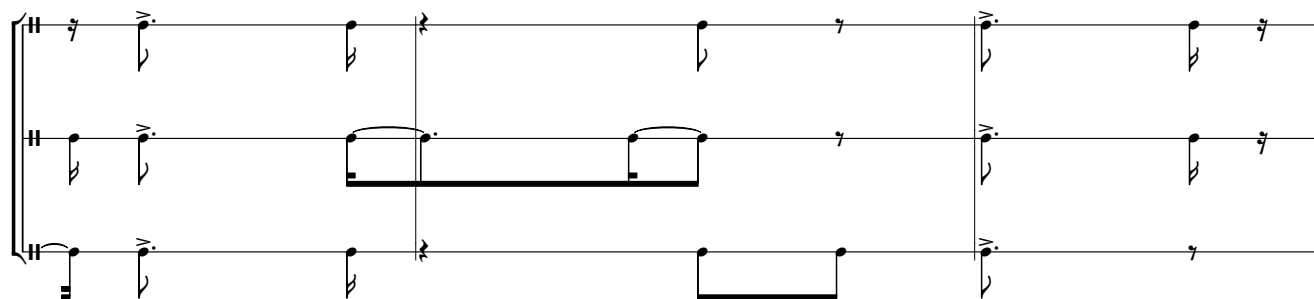


⑦

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{5}{16}$

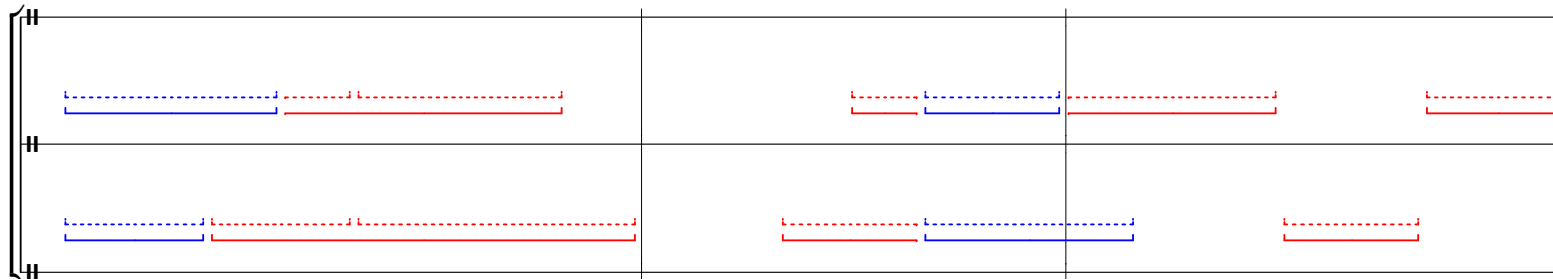


# A<sub>7</sub> desynchronizing blue timespan releases

$\frac{2}{4}$  ♪ = 72

$\frac{3}{8}$

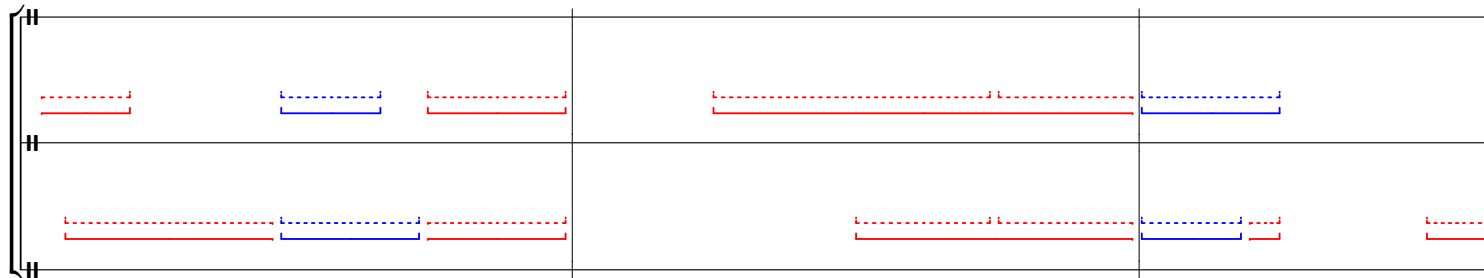
$\frac{7}{16}$



④

$\frac{2}{4}$

$\frac{5}{16}$

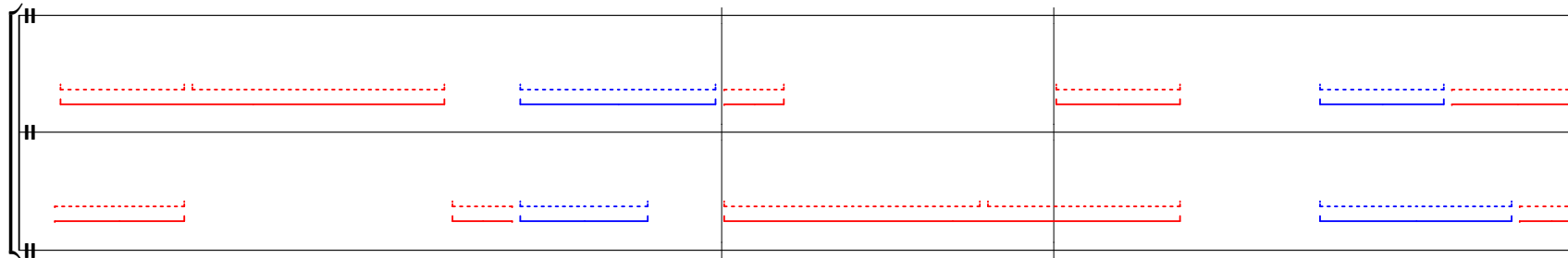


⑦

$\frac{5}{8}$

$\frac{5}{16}$

$\frac{2}{4}$



# A<sub>7</sub> desynchronizing blue timespan releases

$\frac{2}{4}$  ♩ = 72

3/8 7/16

④

2/4 5/16

⑦

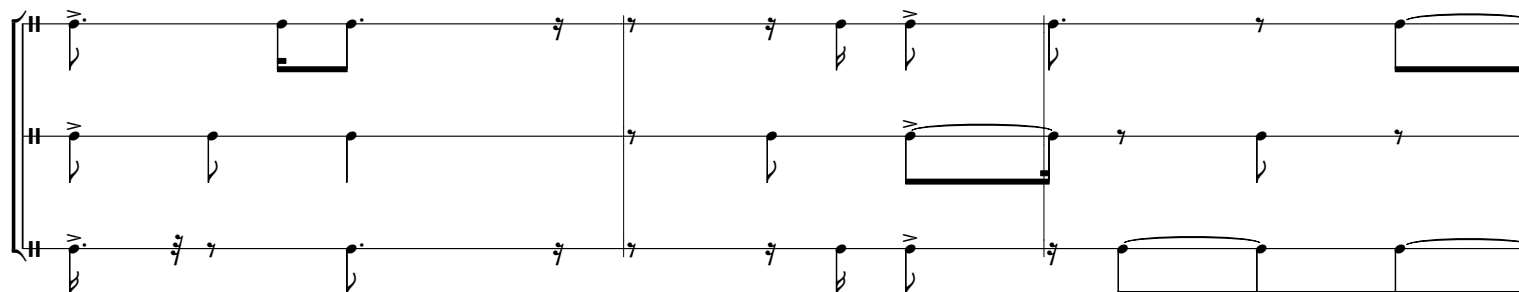
3/8 5/16 2/4

**A<sub>7</sub>** desynchronizing blue timespan releases

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

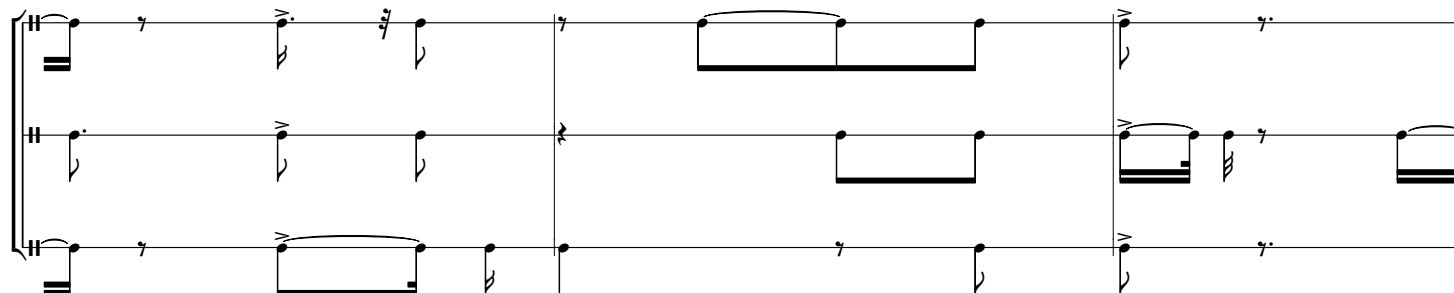
$\frac{7}{16}$



④

$\frac{2}{4}$

$\frac{5}{16}$

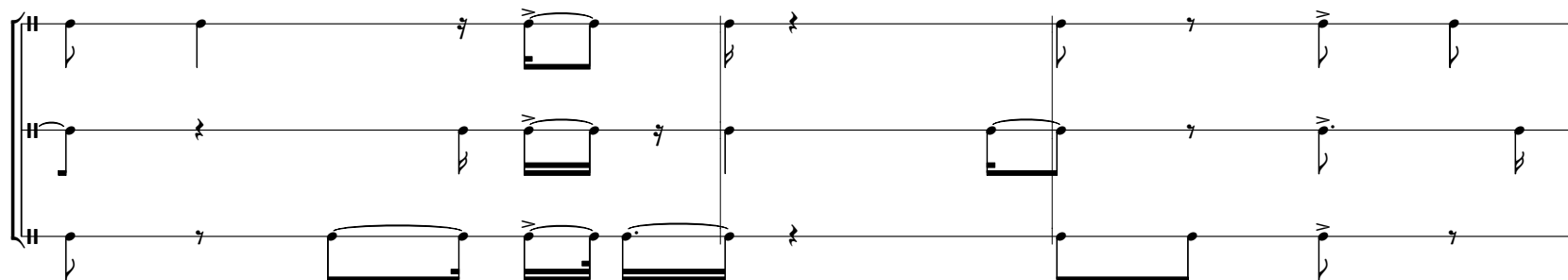


⑦

$\frac{3}{8}$

$\frac{5}{16}$

$\frac{2}{4}$

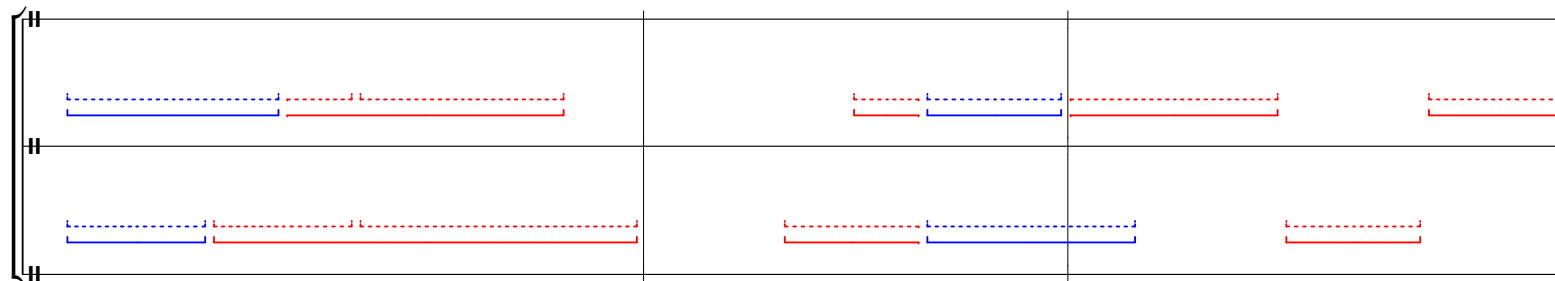


# A8 shifting blue timespans attacks

$\frac{2}{4}$  ♪ = 72

$\frac{3}{8}$

$\frac{7}{16}$

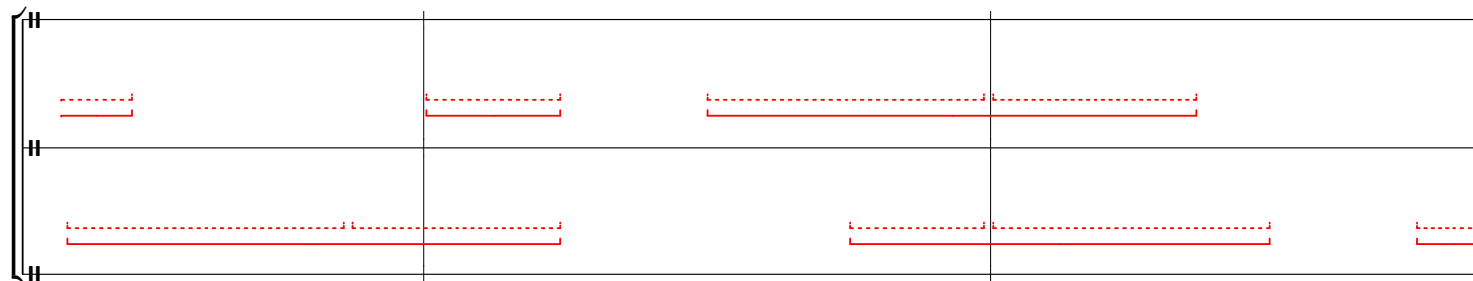


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

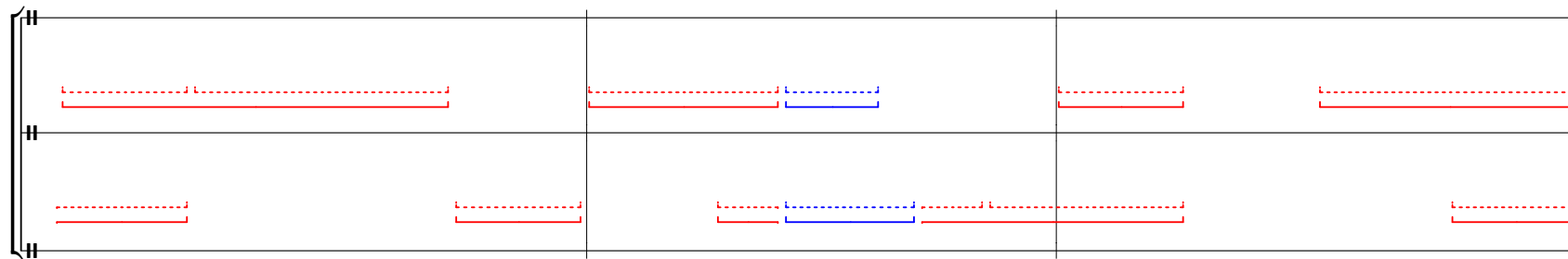


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$





# A8 shifting blue timespans attacks

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$   $\frac{7}{16}$

This system contains measures 1 through 4. The first measure is in 2/4 time. The second measure is in 3/8 time. The third and fourth measures are in 7/16 time. The notation includes eighth notes, quarter notes, and rests. Blue and red dashed lines with brackets below the staves indicate the timing of 'shifting blue timespans attacks'.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

This system contains measures 5 through 8. The first measure is in 5/16 time, the second in 2/4 time, and the third in 7/16 time. The notation includes eighth notes, quarter notes, and rests. Blue and red dashed lines with brackets below the staves indicate the timing of 'shifting blue timespans attacks'.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

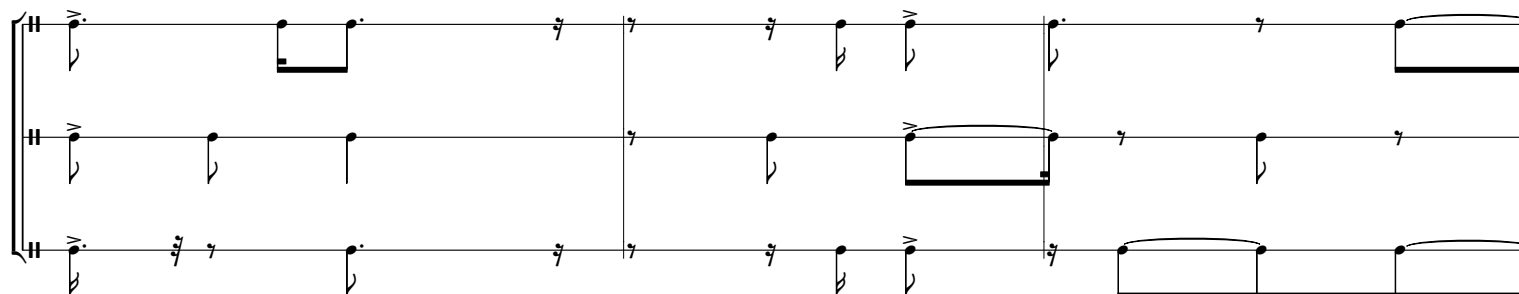
This system contains measures 9 through 12. The first measure is in 2/4 time, the second in 7/16 time, and the third in 2/4 time. The notation includes eighth notes, quarter notes, and rests. Blue and red dashed lines with brackets below the staves indicate the timing of 'shifting blue timespans attacks'.

# A8 shifting blue timespans attacks

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

$\frac{7}{16}$

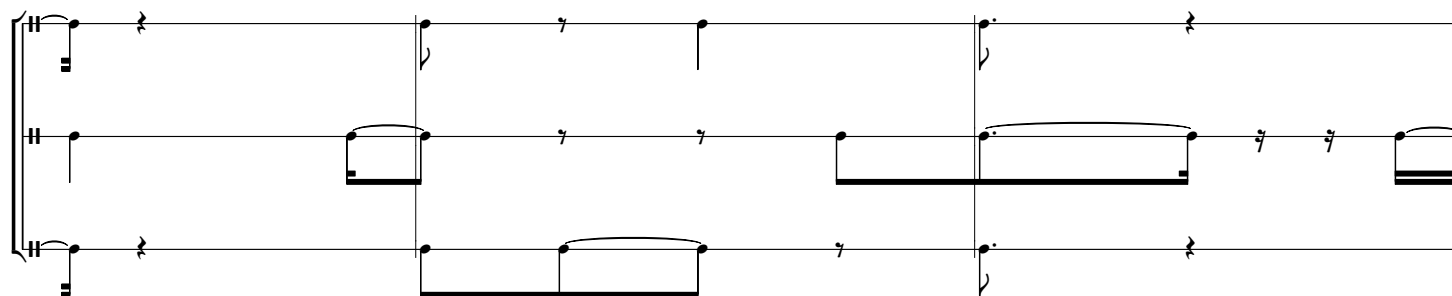


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

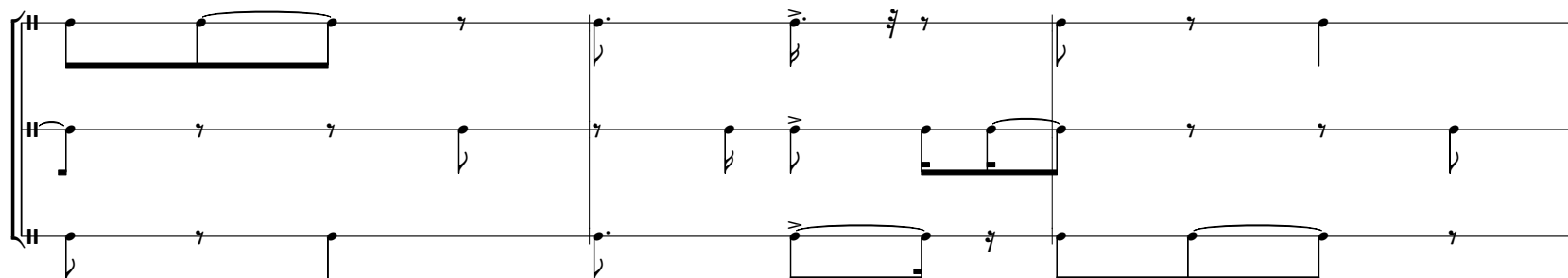


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

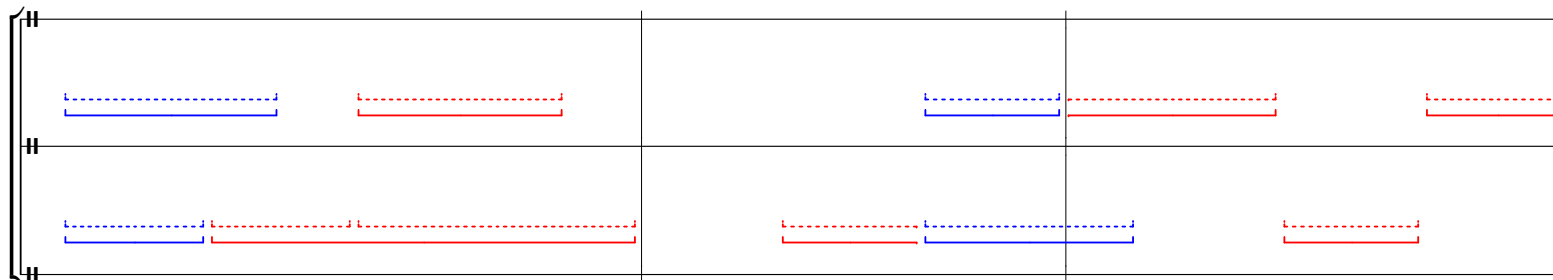


# A9 masking out brief red timespans

$\frac{2}{4}$  ♪ = 72

$\frac{3}{8}$

$\frac{7}{16}$

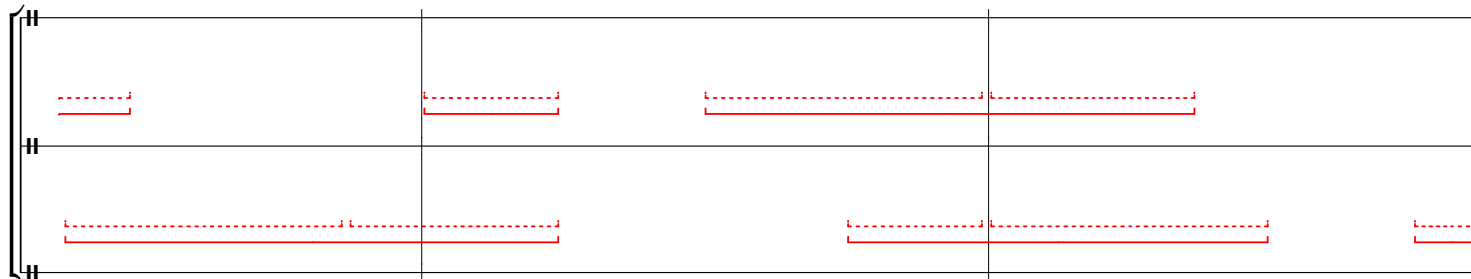


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

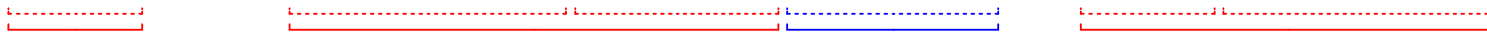
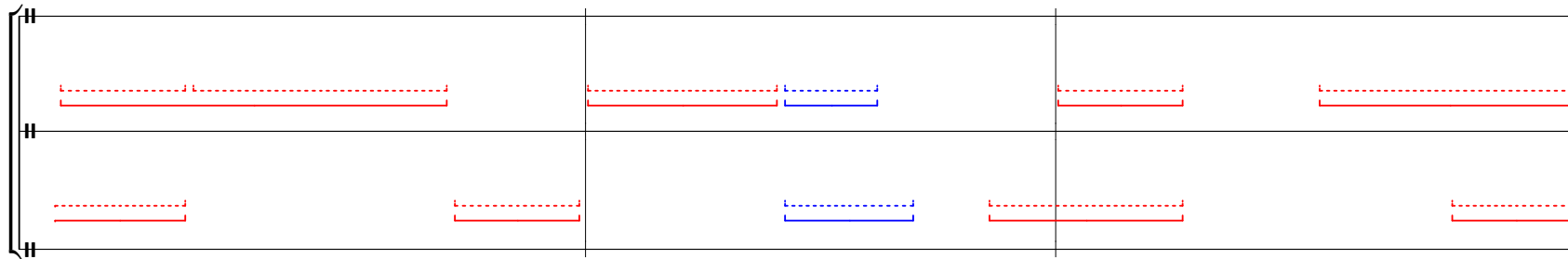


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# **A9** masking out brief red timespans

$\frac{2}{4}$   $\text{♩} = 72$

$\frac{3}{8}$   $\frac{7}{16}$

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

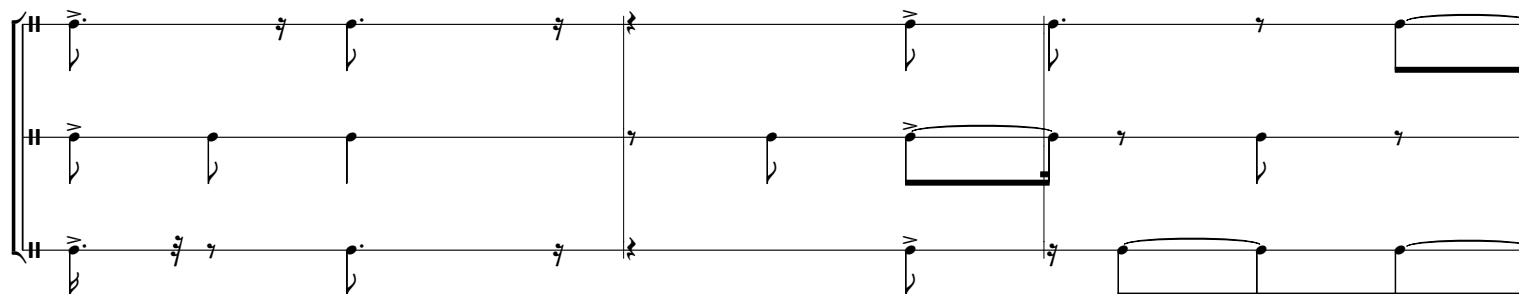
The image displays three systems of musical notation, each consisting of three staves. The notation includes various time signatures:  $\frac{2}{4}$ ,  $\frac{3}{8}$ ,  $\frac{7}{16}$ , and  $\frac{5}{16}$ . A tempo marking  $\text{♩} = 72$  is present at the beginning. Red and blue dashed lines are used to mark specific timespans across the staves. The first system has a tempo marking of quarter note = 72. The second system is marked with a circled 4 and the third with a circled 7.

# Ag masking out brief red timespans

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

$\frac{7}{16}$

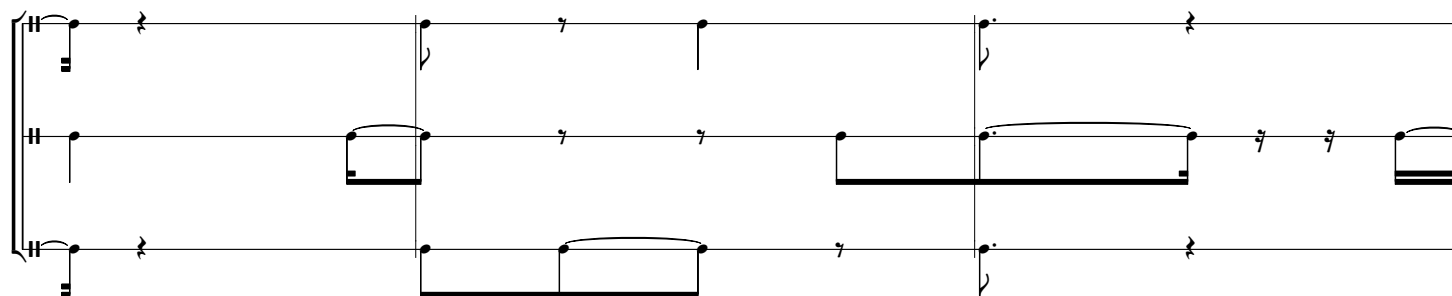


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

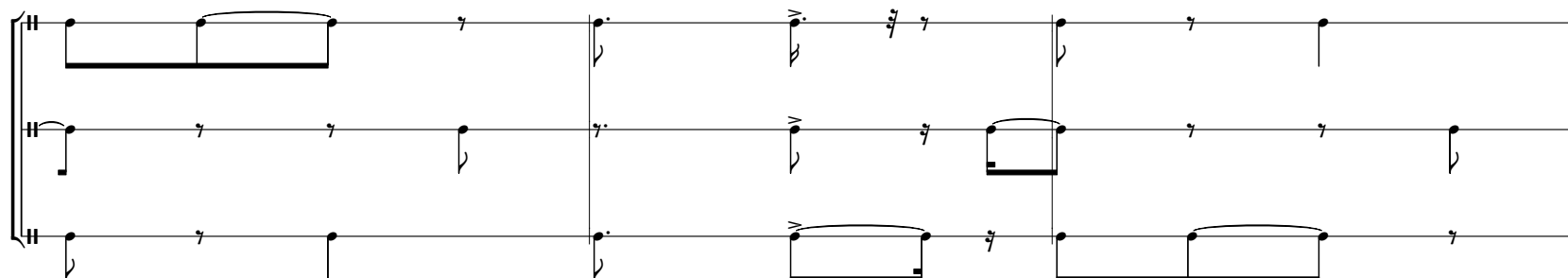


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

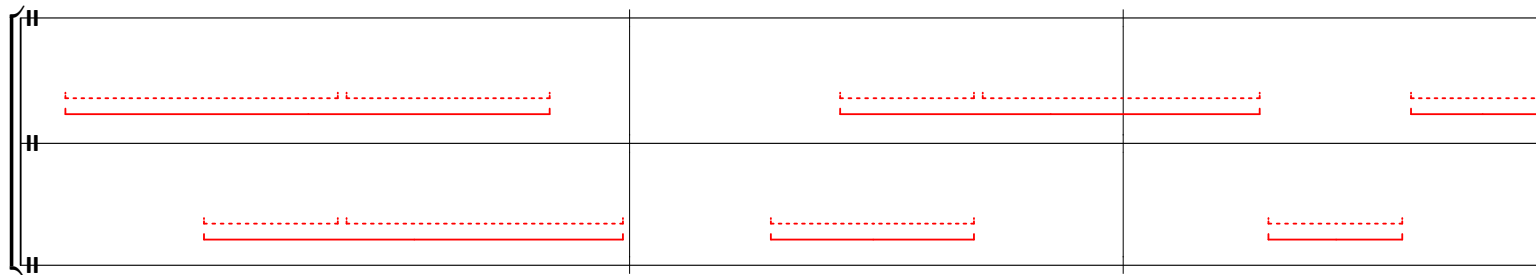


# BI inscribing a rhythm

$\frac{2}{4}$  ♪ = 72

$\frac{7}{16}$

$\frac{3}{8}$

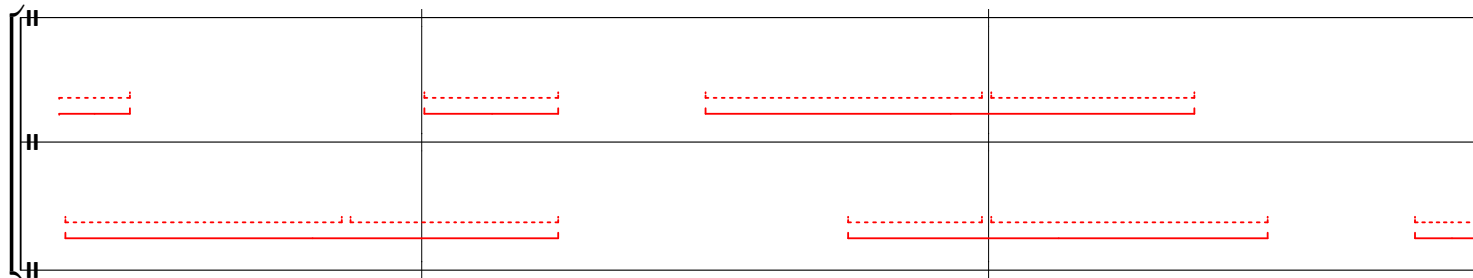


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

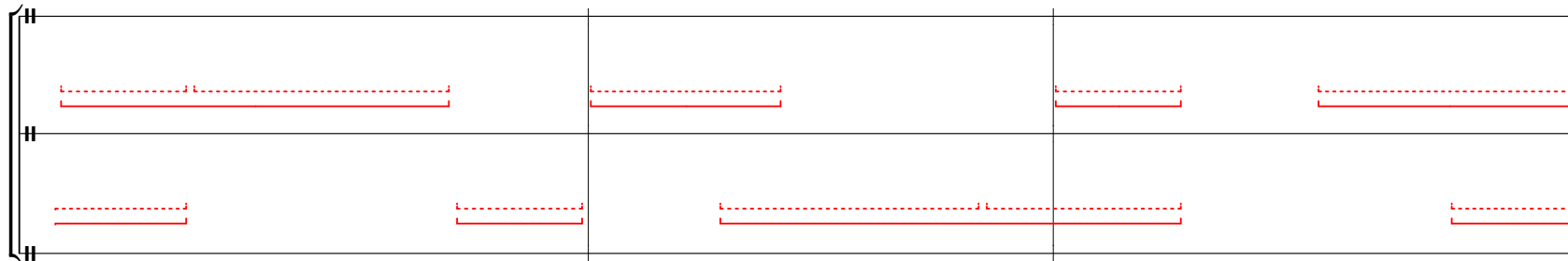


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# BI inscribing a rhythm

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$   $\frac{3}{8}$

This musical score consists of three staves. The first staff is in 2/4 time, the second in 7/16, and the third in 3/8. The notation includes eighth and sixteenth notes, as well as rests. Red dashed lines are used to group notes across measures, indicating a specific rhythmic pattern or phrasing.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

This musical score consists of three staves. The first staff is in 5/16 time, the second in 2/4, and the third in 7/16. The notation includes eighth and sixteenth notes, as well as rests. Red dashed lines are used to group notes across measures, indicating a specific rhythmic pattern or phrasing.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

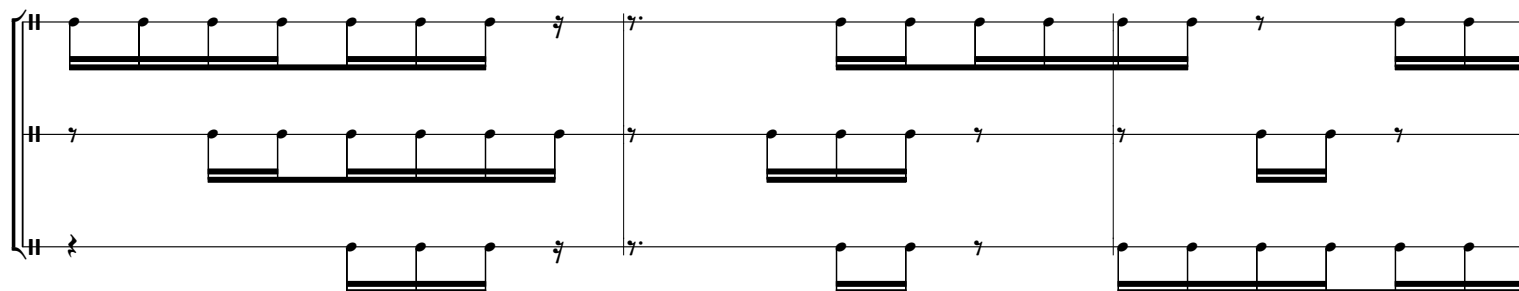
This musical score consists of three staves. The first staff is in 2/4 time, the second in 7/16, and the third in 2/4. The notation includes eighth and sixteenth notes, as well as rests. Red dashed lines are used to group notes across measures, indicating a specific rhythmic pattern or phrasing.

# BI inscribing a rhythm

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

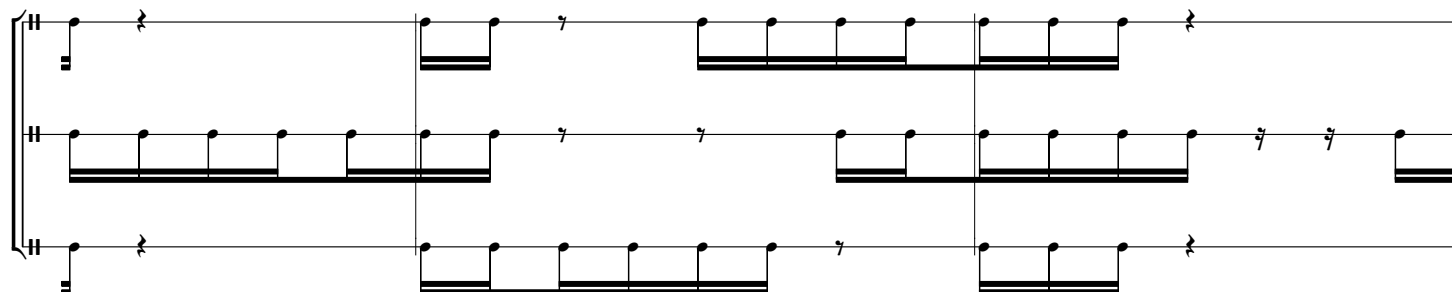


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

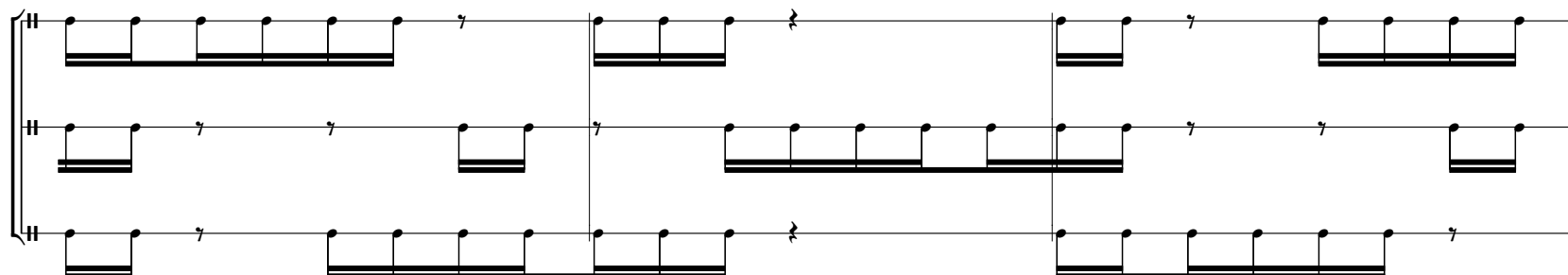


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$





**B2** a different rhythm pattern: 1/16, 1/8

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

System B2, measures 1-3. Measure 1 is 2/4, measure 2 is 7/16, and measure 3 is 3/8. The score is for three staves. Red dashed lines indicate 1/16 and 1/8 note durations.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

System 4, measures 4-6. Measure 4 is 5/16, measure 5 is 2/4, and measure 6 is 7/16. The score is for three staves. Red dashed lines indicate 1/16 and 1/8 note durations.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

System 7, measures 7-9. Measure 7 is 2/4, measure 8 is 7/16, and measure 9 is 2/4. The score is for three staves. Red dashed lines indicate 1/16 and 1/8 note durations.

**B2** a different rhythm pattern: 1/16, 1/8

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

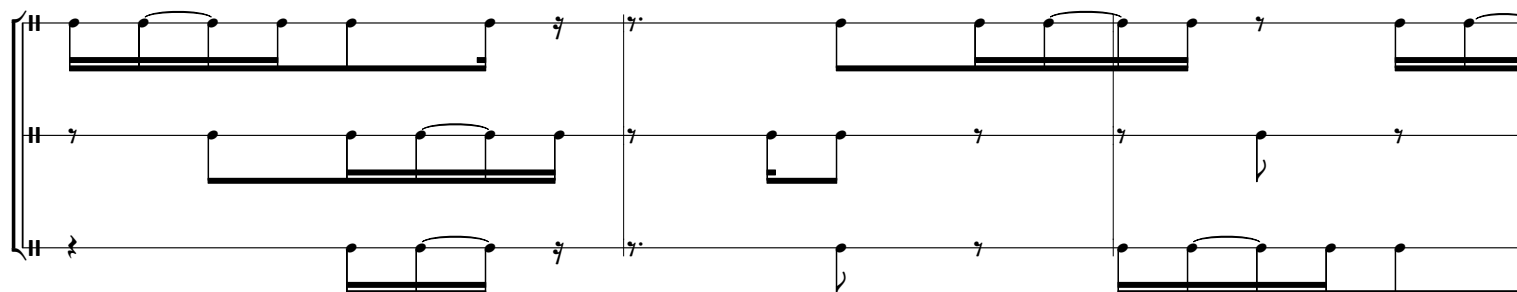
⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

**B2** a different rhythm pattern: 1/16, 1/8

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

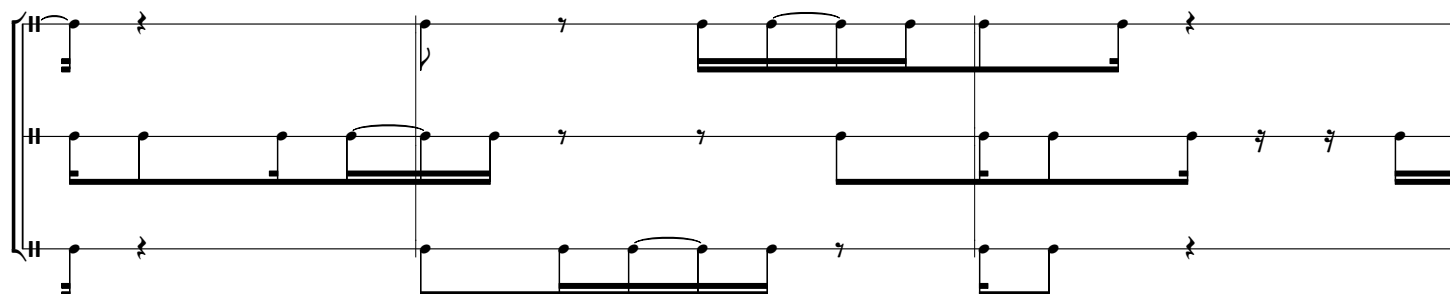


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

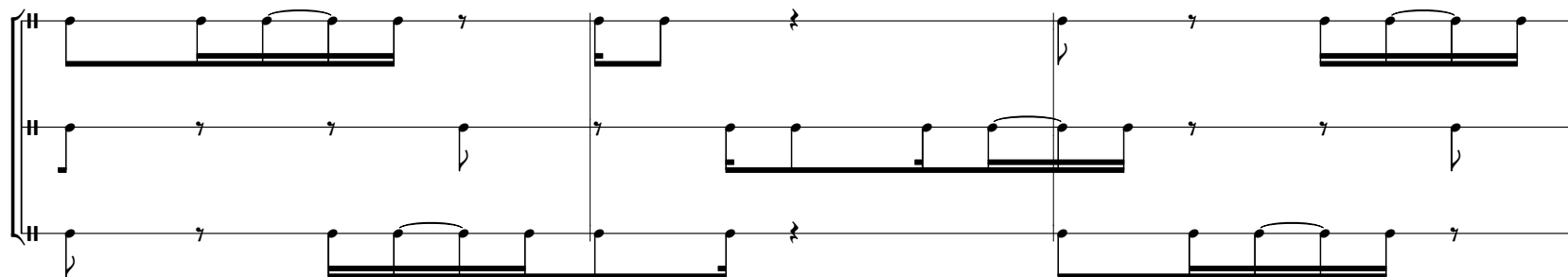


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



**B3** another rhythm pattern: 1/16, 1/8, 3/16

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

System B3, measures 1-3. Measure 1 is 2/4, measure 2 is 7/16, and measure 3 is 3/8. The score is for three staves. Red dashed lines indicate rhythmic patterns: 1/16, 1/8, and 3/16 notes.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

System 4, measures 4-6. Measure 4 is 5/16, measure 5 is 2/4, and measure 6 is 7/16. The score is for three staves. Red dashed lines indicate rhythmic patterns: 1/16, 1/8, and 3/16 notes.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

System 7, measures 7-9. Measure 7 is 2/4, measure 8 is 7/16, and measure 9 is 2/4. The score is for three staves. Red dashed lines indicate rhythmic patterns: 1/16, 1/8, and 3/16 notes.

**B3** another rhythm pattern: 1/16, 1/8, 3/16

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

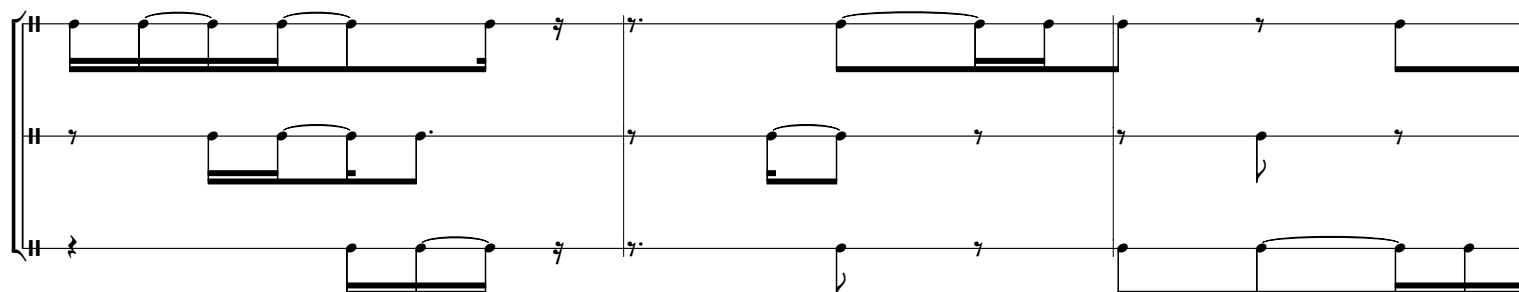
⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

**B3** another rhythm pattern: 1/16, 1/8, 3/16

$\frac{2}{4}$  ♪ = 72

$\frac{7}{16}$

$\frac{3}{8}$

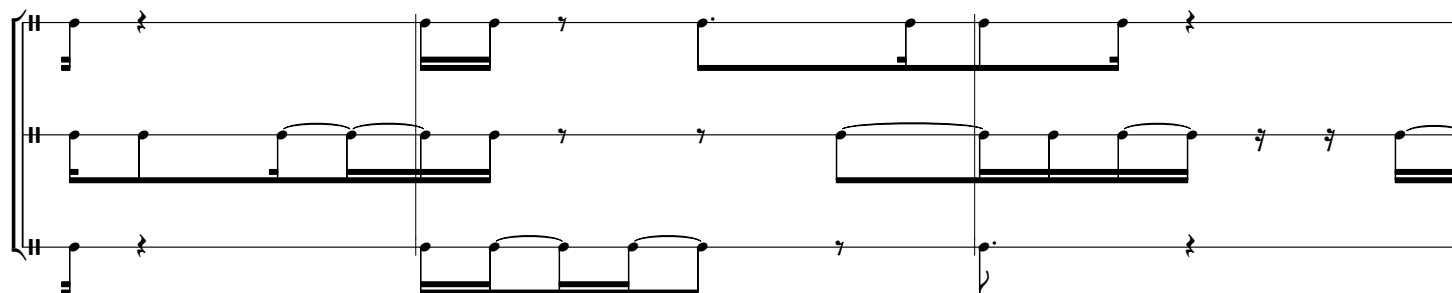


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

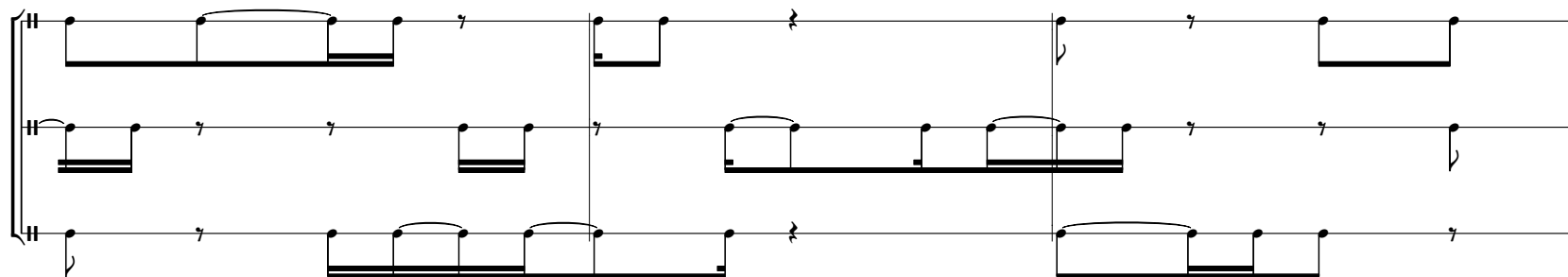


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# B $\frac{4}{4}$ making triplets

$\frac{2}{4}$   $\text{♩} = 72$   $\frac{7}{16}$   $\frac{3}{8}$

5:4 5:4 5:4

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

5:4 5:4 5:4

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

5:4 5:4 5:4

# B $\frac{4}{4}$ making tuplets

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$   $\frac{3}{8}$

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$



# B4 making tuplets

$\frac{2}{4}$  ♪ = 72

$\frac{7}{16}$

$\frac{3}{8}$

System 1, measures 1-3. Measure 1 is  $\frac{2}{4}$ , measure 2 is  $\frac{7}{16}$ , and measure 3 is  $\frac{3}{8}$ . The score is for three staves. Measure 1 has a 5:4 ratio indicated. Measure 2 has a 5:4 ratio indicated. Measure 3 has a 5:4 ratio indicated.

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

System 2, measures 4-6. Measure 4 is  $\frac{5}{16}$ , measure 5 is  $\frac{2}{4}$ , and measure 6 is  $\frac{7}{16}$ . The score is for three staves. Measure 4 has a 5:4 ratio indicated. Measure 5 has a 5:4 ratio indicated. Measure 6 has a 5:4 ratio indicated.

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

System 3, measures 7-9. Measure 7 is  $\frac{2}{4}$ , measure 8 is  $\frac{7}{16}$ , and measure 9 is  $\frac{2}{4}$ . The score is for three staves. Measure 7 has a 5:4 ratio indicated. Measure 8 has a 5:4 ratio indicated. Measure 9 has a 5:4 ratio indicated.

# B5 changing notes into rests

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

# B5 changing notes into rests

2/4 ♩ = 72      7/16      3/8

5:4

④ 5/16      2/4      7/16

5:4

⑦ 2/4      7/16      2/4

5:4

# B5 changing notes into rests

$\frac{2}{4}$  ♪ = 72

$\frac{7}{16}$

$\frac{3}{8}$

System 1, measures 1-3. The score is written for three staves. Measure 1 (2/4) contains a half note G4, a half note A4, and a half note B4. Measure 2 (7/16) contains a half note G4, a half note A4, and a half note B4. Measure 3 (3/8) contains a half note G4, a half note A4, and a half note B4. Brackets indicate 5:4 ratios between notes in measures 1 and 2.

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

System 2, measures 4-6. The score is written for three staves. Measure 4 (5/16) contains a half note G4, a half note A4, and a half note B4. Measure 5 (2/4) contains a half note G4, a half note A4, and a half note B4. Measure 6 (7/16) contains a half note G4, a half note A4, and a half note B4. Brackets indicate 5:4 ratios between notes in measures 4 and 5.

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

System 3, measures 7-9. The score is written for three staves. Measure 7 (2/4) contains a half note G4, a half note A4, and a half note B4. Measure 8 (7/16) contains a half note G4, a half note A4, and a half note B4. Measure 9 (2/4) contains a half note G4, a half note A4, and a half note B4. Brackets indicate 5:4 ratios between notes in measures 7 and 8.

# B6a rotating rhythm patterns (I)

2/4 ♩ = 72      7/16      3/8

④ 5/16      2/4      7/16

⑦ 2/4      7/16      2/4

# B6a rotating rhythm patterns (I)

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

System 1: Three staves. The first staff is in  $\frac{2}{4}$  time, the second in  $\frac{7}{16}$ , and the third in  $\frac{3}{8}$ . Red dashed lines and brackets indicate 3:2 ratios between measures.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

System 4: Three staves. The first staff is in  $\frac{5}{16}$  time, the second in  $\frac{2}{4}$ , and the third in  $\frac{7}{16}$ . Red dashed lines and brackets indicate 3:2 ratios between measures.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

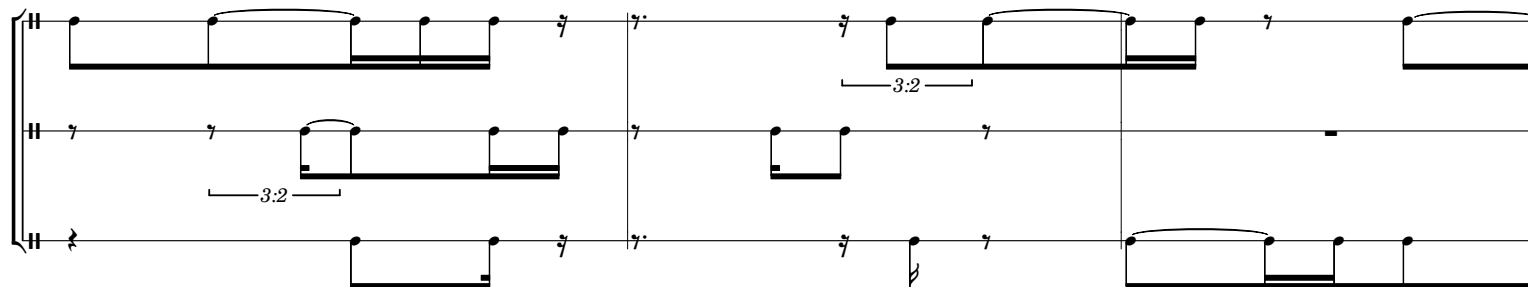
System 7: Three staves. The first staff is in  $\frac{2}{4}$  time, the second in  $\frac{7}{16}$ , and the third in  $\frac{2}{4}$ . Red dashed lines and brackets indicate 3:2 ratios between measures.

# B6a rotating rhythm patterns (I)

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

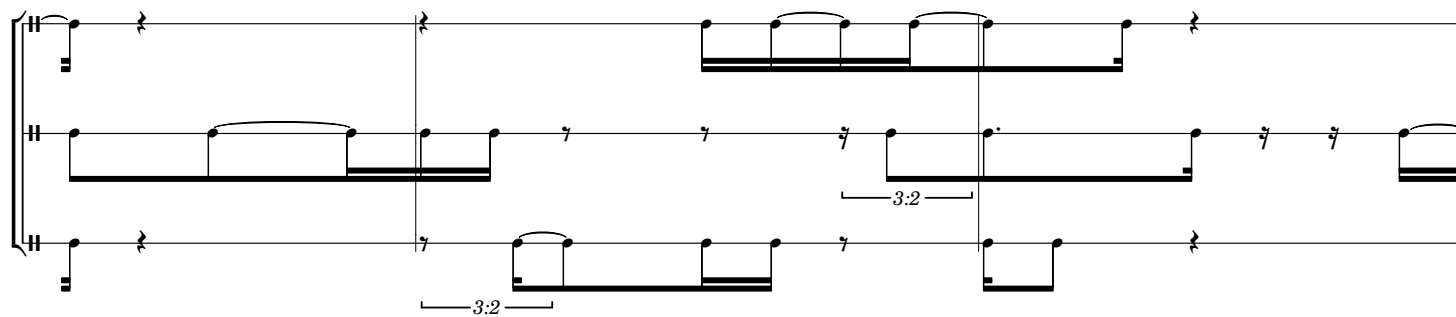


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

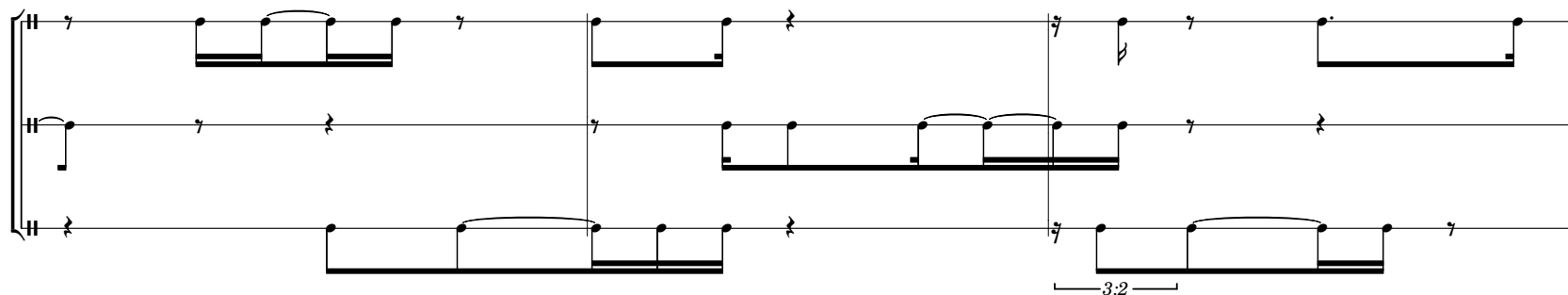


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# B6b rotating rhythm patterns (2)

2/4 ♩ = 72      7/16      3/8

④ 5/16      2/4      7/16

⑦ 2/4      7/16      2/4

The musical score consists of three systems, each with three staves. The first system is labeled with time signatures 2/4, 7/16, and 3/8. The second system is labeled with 5/16, 2/4, and 7/16. The third system is labeled with 2/4, 7/16, and 2/4. The notation includes various rhythmic figures, rests, and accidentals. Red dashed lines and brackets with '4:3' indicate specific rhythmic relationships or groupings across the staves. The score is divided into measures by vertical bar lines, with some measures containing multiple staves of music.



# B6b rotating rhythm patterns (2)

2/4 ♩ = 72      7/16      3/8

④ 5/16      2/4      7/16

⑦ 2/4      7/16      2/4

The musical score consists of three systems, each with three staves. The first system is labeled with time signatures 2/4, 7/16, and 3/8. The second system is labeled with 5/16, 2/4, and 7/16. The third system is labeled with 2/4, 7/16, and 2/4. The score includes various rhythmic patterns, including eighth and sixteenth notes, rests, and beams. Red dashed lines and brackets are used to indicate specific rhythmic intervals and groupings, with some labeled '4:3'. The notation is in a standard musical format with a treble clef and a key signature of one flat (B-flat).

# B6b rotating rhythm patterns (2)

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

System 1, measures 1-3. The notation includes three staves. Measure 1 has a half rest on the top staff, eighth notes on the middle and bottom staves, and a 4:3 ratio. Measure 2 has eighth notes on the top staff, a half rest on the middle staff, and eighth notes on the bottom staff, with a 4:3 ratio. Measure 3 has eighth notes on the top staff, eighth notes on the middle staff, and eighth notes on the bottom staff, with a 4:3 ratio.

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

System 2, measures 4-6. The notation includes three staves. Measure 4 has a half rest on the top staff, eighth notes on the middle and bottom staves, and a 4:3 ratio. Measure 5 has eighth notes on the top staff, a half rest on the middle staff, and eighth notes on the bottom staff. Measure 6 has eighth notes on the top staff, eighth notes on the middle staff, and eighth notes on the bottom staff, with a 4:3 ratio.

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

System 3, measures 7-9. The notation includes three staves. Measure 7 has eighth notes on the top staff, eighth notes on the middle staff, and eighth notes on the bottom staff, with a 4:3 ratio. Measure 8 has eighth notes on the top staff, eighth notes on the middle staff, and eighth notes on the bottom staff, with a 4:3 ratio. Measure 9 has eighth notes on the top staff, eighth notes on the middle staff, and eighth notes on the bottom staff.

# B6c rotating rhythm patterns (3)

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

Measure 1 (2/4): Top staff has a half note (C4), a quarter note (D4), and a quarter note (E4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 4:3 ratio between the first and second staves.

Measure 2 (7/16): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 4:3 ratio between the first and second staves.

Measure 3 (3/8): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 3:2 ratio between the first and second staves.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

Measure 4 (5/16): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 4:3 ratio between the first and second staves.

Measure 5 (2/4): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 3:2 ratio between the first and second staves.

Measure 6 (7/16): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 4:3 ratio between the first and second staves.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

Measure 7 (2/4): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 3:2 ratio between the first and second staves.

Measure 8 (7/16): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 4:3 ratio between the first and second staves.

Measure 9 (2/4): Top staff has a half note (C4) and a quarter note (D4). Middle staff has a half note (C4) and a quarter note (D4). Bottom staff has a half note (C4) and a quarter note (D4). Red dashed lines and brackets indicate a 4:3 ratio between the first and second staves.

# B6c rotating rhythm patterns (3)

2/4 ♩ = 72      7/16      3/8

4:3      3:2      4:3

④ 5/16      2/4      7/16

3:2      4:3      4:3

⑦ 2/4      7/16      2/4

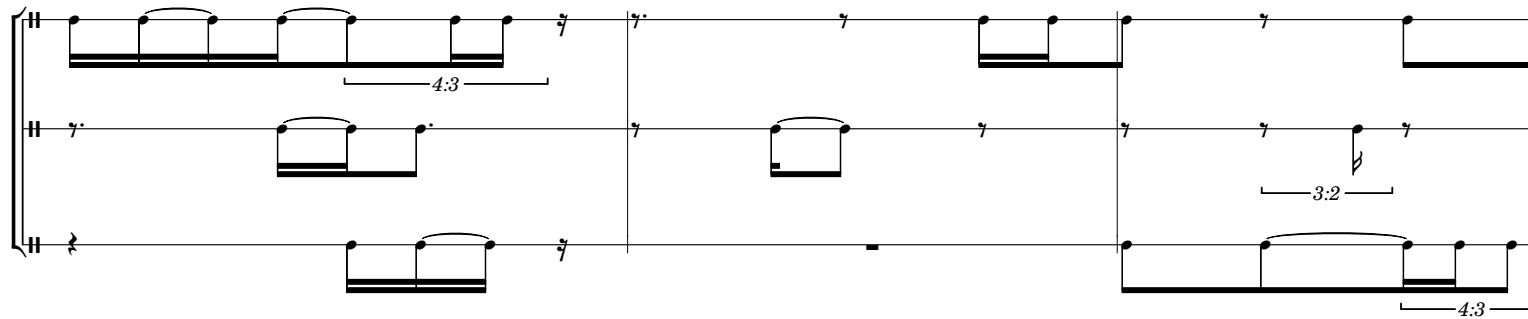
3:2      4:3      4:3

# B6c rotating rhythm patterns (3)

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

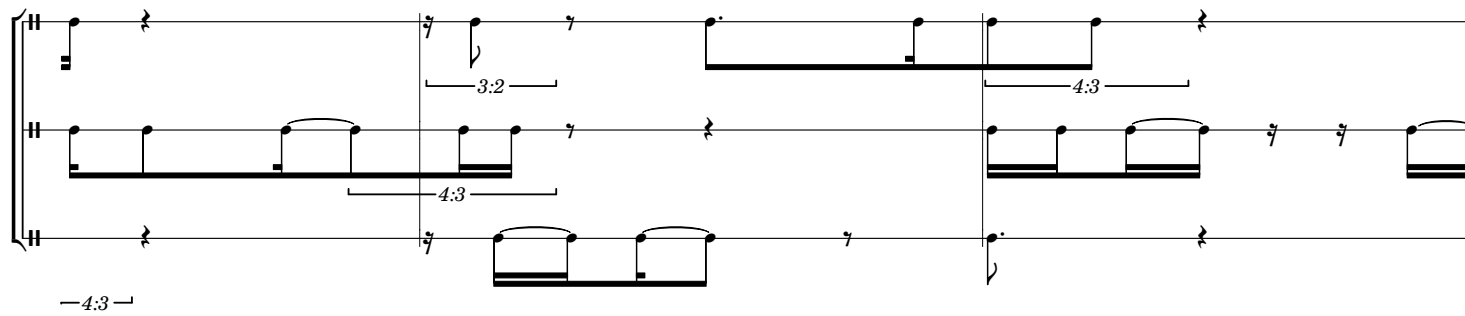


④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

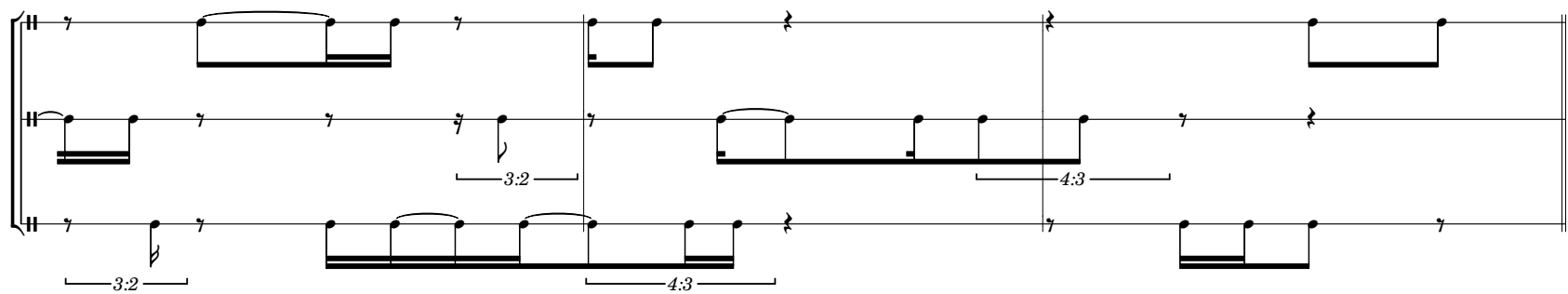


⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$



# B6d rotating rhythm patterns (4)

$\frac{2}{4}$  ♩ = 72  $\frac{7}{16}$   $\frac{3}{8}$

This musical score consists of three staves. The first staff is in 2/4 time, the second in 7/16, and the third in 3/8. The notation includes various note values and rests, with red dashed lines and black brackets indicating 5:4 ratio segments across the staves.

④  $\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

This musical score consists of three staves. The first staff is in 5/16 time, the second in 2/4, and the third in 7/16. The notation includes various note values and rests, with red dashed lines and black brackets indicating 5:4 ratio segments across the staves.

⑦  $\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

This musical score consists of three staves. The first staff is in 2/4 time, the second in 7/16, and the third in 2/4. The notation includes various note values and rests, with red dashed lines and black brackets indicating 5:4 ratio segments across the staves.

# B6d rotating rhythm patterns (4)

2/4 ♩ = 72      7/16      3/8

System 1: Measures 1-3. Measure 1 (2/4) has three staves. Measure 2 (7/16) has three staves. Measure 3 (3/8) has three staves. Red dashed brackets indicate 5:4 ratios across measures.

④ 5/16      2/4      7/16

System 2: Measures 4-6. Measure 4 (5/16) has three staves. Measure 5 (2/4) has three staves. Measure 6 (7/16) has three staves. Red dashed brackets indicate 5:4 ratios across measures.

⑦ 2/4      7/16      2/4

System 3: Measures 7-9. Measure 7 (2/4) has three staves. Measure 8 (7/16) has three staves. Measure 9 (2/4) has three staves. Red dashed brackets indicate 5:4 ratios across measures.

# B6d rotating rhythm patterns (4)

$\frac{2}{4}$  ♩ = 72

$\frac{7}{16}$

$\frac{3}{8}$

④

$\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$

⑦

$\frac{2}{4}$   $\frac{7}{16}$   $\frac{2}{4}$

$\frac{5}{16}$   $\frac{2}{4}$   $\frac{7}{16}$



# B7 reintroducing blue timespans

2/4 ♩ = 72

3/8

7/16

④

5/16

2/4

7/16

⑦

2/4

7/16

2/4

## B7

④

# B<sub>7</sub> reintroducing blue timespans

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

$\frac{7}{16}$

First system of musical notation (measures 1-3). The notation includes three staves with various rhythmic patterns and time signature changes. Measure 1 is in 2/4, measure 2 in 3/8, and measure 3 in 7/16. Rhythmic spans are labeled as 4:3, 3:2, and 5:4.

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

Second system of musical notation (measures 4-6). The notation continues the rhythmic patterns from the first system. Measure 4 is in 5/16, measure 5 in 2/4, and measure 6 in 7/16. Rhythmic spans are labeled as 4:3, 3:2, and 5:4.

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

Third system of musical notation (measures 7-9). The notation concludes the rhythmic patterns. Measure 7 is in 2/4, measure 8 in 7/16, and measure 9 in 2/4. Rhythmic spans are labeled as 3:2, 4:3, and 5:4.

# B8 adding rhythms to blue timespans

2/4 ♩ = 72

3/8

7/16

④

5/16

2/4

7/16

⑦

2/4

7/16

2/4

The image displays three musical staves, each containing two measures of music. The first staff is marked with a tempo of 72 beats per minute (♩ = 72) and features time signatures of 2/4, 3/8, and 7/16. The second staff is marked with a circled 4 and features time signatures of 5/16, 2/4, and 7/16. The third staff is marked with a circled 7 and features time signatures of 2/4, 7/16, and 2/4. The musical notation includes various note values (quarter, eighth, sixteenth notes) and rests. Blue and red dashed lines with brackets are used to indicate specific rhythmic spans or groupings within the measures. The first staff shows a 4:3 ratio in the first measure and a 3:2 ratio in the second. The second staff shows a 5:4 ratio in the first measure and a 3:2 ratio in the second. The third staff shows a 3:2 ratio in the first measure and a 5:4 ratio in the second.

# B8 adding rhythms to blue timespans

2/4 ♩ = 72

3/8

7/16

④

5/16

2/4

7/16

⑦

2/4

7/16

2/4

The image displays three musical staves, each containing three measures of music. The first staff is labeled 'B8 adding rhythms to blue timespans' and includes a tempo marking '2/4 ♩ = 72'. The second staff is labeled '④' and the third '⑦'. The staves are divided into measures by vertical bar lines. The first staff has three measures, the second has three measures, and the third has three measures. The patterns are complex, involving multiple note values and rests, with blue and red dashed lines indicating specific rhythmic spans. The first staff has a tempo marking '2/4 ♩ = 72'. The staves are divided into measures by vertical bar lines. The first staff has three measures, the second has three measures, and the third has three measures. The patterns are complex, involving multiple note values and rests, with blue and red dashed lines indicating specific rhythmic spans.

# B8 adding rhythms to blue timespans

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

$\frac{7}{16}$

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

**CI** adding grace notes (every red attack)

The image displays three musical staves, each containing three staves of music. The notation includes various time signatures and rhythmic markings:

- Staff 1:**
  - Time signatures:  $\frac{2}{4}$  (with  $\text{♩} = 72$ ),  $\frac{3}{8}$ , and  $\frac{7}{16}$ .
  - Rhythmic markings:  $4:3$ ,  $3:2$ , and  $5:4$ .
  - Grace notes are indicated by red dashed lines and blue solid lines.
- Staff 2 (labeled 4):**
  - Time signatures:  $\frac{5}{16}$ ,  $\frac{2}{4}$ , and  $\frac{7}{16}$ .
  - Rhythmic markings:  $4:3$ ,  $3:2$ , and  $5:4$ .
  - Grace notes are indicated by red dashed lines and blue solid lines.
- Staff 3 (labeled 7):**
  - Time signatures:  $\frac{2}{4}$ ,  $\frac{7}{16}$ , and  $\frac{2}{4}$ .
  - Rhythmic markings:  $3:2$ ,  $4:3$ , and  $5:4$ .
  - Grace notes are indicated by red dashed lines and blue solid lines.

**C<sub>I</sub>** adding grace notes (every red attack)

**2/4** ♩ = 72

**3/8**

**7/16**

4:3, 3:2, 4:3, 3:2, 5:4

④

**5/16**

**2/4**

**7/16**

4:3, 3:2, 5:4, 3:2, 4:3, 3:2

⑦

**2/4**

**7/16**

**2/4**

3:2, 4:3, 3:2, 4:3, 3:2, 5:4, 3:2



**C2** adding grace notes (every other red attack)

The image displays three systems of musical notation, each consisting of three staves. The notation includes various rhythmic values, grace notes, and ratios.

**System 1:** The first staff is marked with a  $\frac{2}{4}$  time signature and a tempo of  $\text{♩} = 72$ . It features a sequence of notes with a  $4:3$  ratio indicated. The second staff shows a  $5:4$  ratio. The third staff continues the pattern. Red and blue dashed lines indicate specific rhythmic intervals.

**System 2:** The first staff is marked with a  $\frac{5}{16}$  time signature. It includes a  $5:4$  ratio and a  $3:2$  ratio. The second staff shows a  $5:4$  ratio. The third staff continues the pattern. Red and blue dashed lines indicate specific rhythmic intervals.

**System 3:** The first staff is marked with a  $\frac{2}{4}$  time signature. It includes a  $5:4$  ratio and a  $4:3$  ratio. The second staff shows a  $4:3$  ratio. The third staff continues the pattern. Red and blue dashed lines indicate specific rhythmic intervals.

**C2** adding grace notes (every other red attack)

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

$\frac{7}{16}$

System 1, measures 1-4. The score consists of three staves. The first staff has a half note, a quarter note, and a half note. The second staff has a half note, a quarter note, and a half note. The third staff has a half note, a quarter note, and a half note. Ratios 4:3 and 5:4 are indicated below the staves.

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

System 2, measures 5-8. The score consists of three staves. The first staff has a half note, a quarter note, and a half note. The second staff has a half note, a quarter note, and a half note. The third staff has a half note, a quarter note, and a half note. Ratios 5:4 and 3:2 are indicated below the staves.

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

System 3, measures 9-12. The score consists of three staves. The first staff has a half note, a quarter note, and a half note. The second staff has a half note, a quarter note, and a half note. The third staff has a half note, a quarter note, and a half note. Ratios 5:4, 4:3, and 3:2 are indicated below the staves.

# C3 adding grace notes (a longer pattern)

The musical score consists of three systems, each with three staves. The notation includes various time signatures and rhythmic markings:

- System 1:**
  - Staff 1: Time signature  $\frac{2}{4}$ , tempo marking  $\text{♩} = 72$ . It features a 4:3 interval marked with a blue dashed line and a 5:4 interval marked with a red dashed line.
  - Staff 2: Continues the 5:4 interval.
  - Staff 3: Continues the 5:4 interval.
- System 2:**
  - Staff 1: Time signature  $\frac{5}{16}$ . It features a 5:4 interval marked with a red dashed line.
  - Staff 2: Continues the 5:4 interval.
  - Staff 3: Continues the 5:4 interval.
- System 3:**
  - Staff 1: Time signature  $\frac{2}{4}$ . It features a 5:4 interval marked with a red dashed line.
  - Staff 2: Continues the 5:4 interval.
  - Staff 3: Continues the 5:4 interval.

Blue and red dashed lines with brackets indicate specific rhythmic intervals and patterns across the staves.

# C3 adding grace notes (a longer pattern)

$\frac{2}{4}$  ♩ = 72

$\frac{3}{8}$

$\frac{7}{16}$

System 1, measures 1-4. The first staff has a half note, a quarter note, and a half note. The second staff has a half note, a quarter note, and a half note. The third staff has a half note, a quarter note, and a half note. Ratios 4:3 and 5:4 are indicated between notes.

④

$\frac{5}{16}$

$\frac{2}{4}$

$\frac{7}{16}$

System 2, measures 5-8. The first staff has a half note, a quarter note, and a half note. The second staff has a half note, a quarter note, and a half note. The third staff has a half note, a quarter note, and a half note. Ratios 5:4 and 3:2 are indicated between notes.

⑦

$\frac{2}{4}$

$\frac{7}{16}$

$\frac{2}{4}$

System 3, measures 9-12. The first staff has a half note, a quarter note, and a half note. The second staff has a half note, a quarter note, and a half note. The third staff has a half note, a quarter note, and a half note. Ratios 5:4, 4:3, and 3:2 are indicated between notes.