

Dr Ian Percy
Twelve-tone Analysis

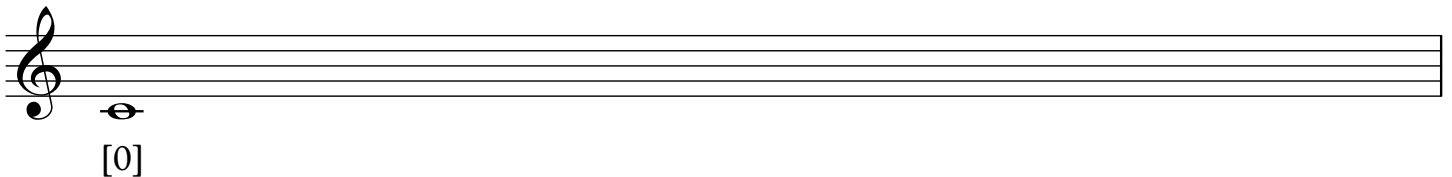
Worksheet Four

Interval-Types, Pitch-Class Sets and Equidistant Cycles

Question:

1. Notate an equidistant (equal step) cycle from C to C for the following examples:
2. List the sequence in pitch-classes (numbers 0-11) to identify the PC Set:
3. List the PC Set in **Normal Order**: Shortest span between outer notes
4. If required transpose the PC Set into **Prime Order**: Normal Order transposed to 0
5. Use Solomon Webpage or PCSetCalc App to identify the PC Set (Forte) number:
6. List the **Interval Vector** for each example:
7. List the **Complement** for each example: (PC Set - Normal - Prime - Forte Number)
8. List any alternate names and/or analytical observations:

[a] Major 2nd: Equal interval steps from C to C

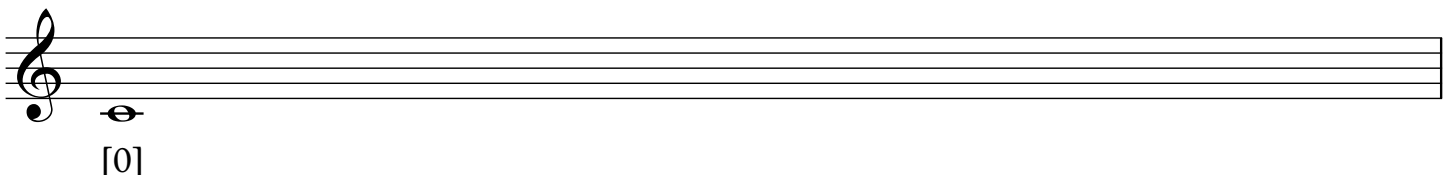


A musical staff with a treble clef. A whole note is written on the first line (C4). Below the staff, the pitch class [0] is indicated.

Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

[b] Major 3rd: Equal interval steps from C to C

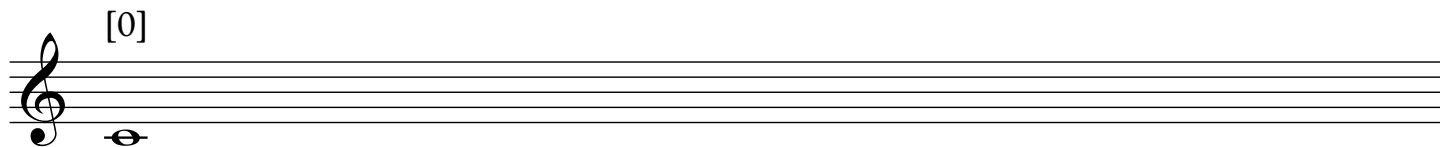


A musical staff with a treble clef. A whole note is written on the first line (C4). Below the staff, the pitch class [0] is indicated.

Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

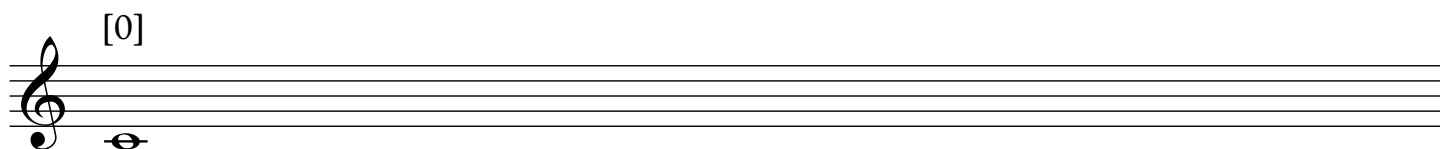
[c] Perfect 4th: Equal interval steps from C to C



Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

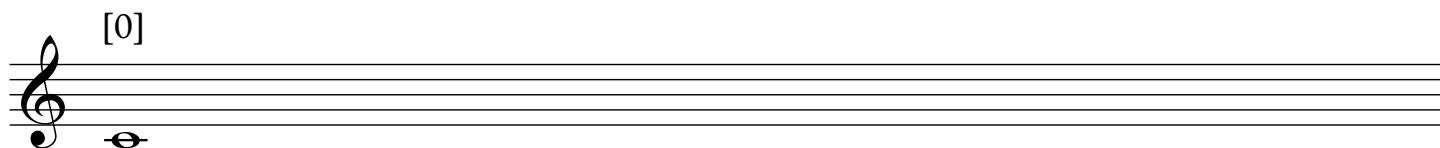
[d] minor 3rd: Equal interval steps from C to C



Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

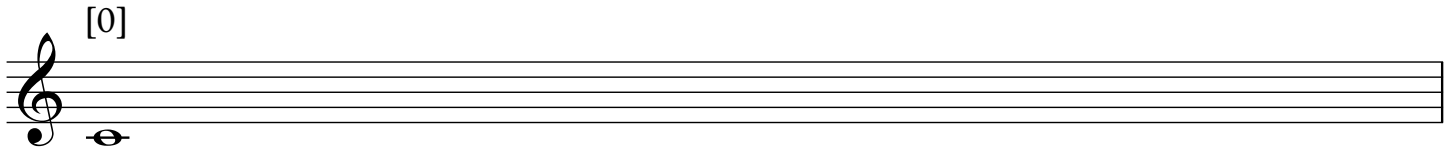
[e] minor 2nd: Equal interval steps from C to C



Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

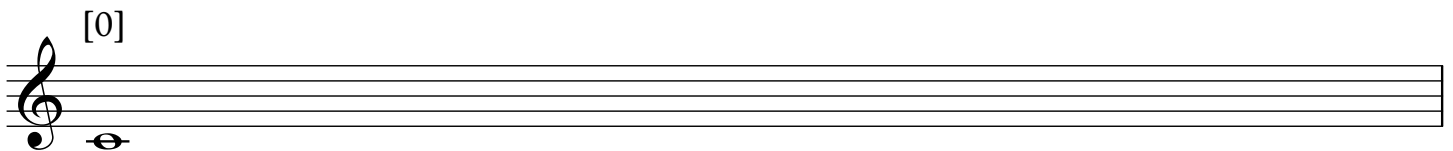
[f] Tritone: Equal interval steps from C to C



Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

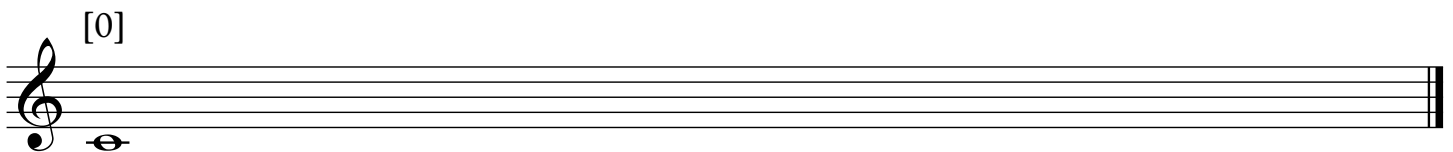
[g] minor 7th: Equal interval steps from C to C



Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name:

[h] minor 6th (augmented 5th): Equal interval steps from C to C



Answer:

1. Notate equidistant cycle (above):
2. PC Set:
3. Normal Order:
4. Prime Order:
5. Forte Number:
6. Vector:
7. Complement:
8. Alternate Name: