Math 116: Written Homework Set 11

This assignment is due on Friday, December 2nd in class. Show all work where possible! Answers magically appearing will receive no credit.

1. Determine the keyboard letter notes represented by the following integers.
   a. -25
   b. -17
   c. 5
   d. 45

2. The fourth B from the left on the piano keyboard is assigned to frequency 246.9 Hz. Find the frequencies of the following notes. Round to the nearest tenth.
   a. The frequency of the B three octaves to the left of the fourth B
   b. The frequency of the B two octaves to the right of the fourth B

3. The sixth F♯ from the left on the piano keyboard is assigned to frequency 1480 Hz. Find the frequencies of the following notes. Round to the nearest tenth.
   a. The frequency of the F♯ four octaves to the left
   b. The frequency of the F♯ one octave to the right

4. Suppose a note has a frequency of 196 Hz. Find the frequencies of the notes obtained by moving up the following intervals from this note. Round to the nearest tenth.
   a. A third
   b. A fourth
   c. A fifth
   d. A sixth
   e. An octave

Selected Answers

1. a. B
   c. F

2. a. 30.9 Hz

3. b. 2960 Hz

4 a. 245 Hz
   c. 294 Hz
   e. 392 Hz