Physics 221 – Spring 2012
Quiz #1

Name: _____

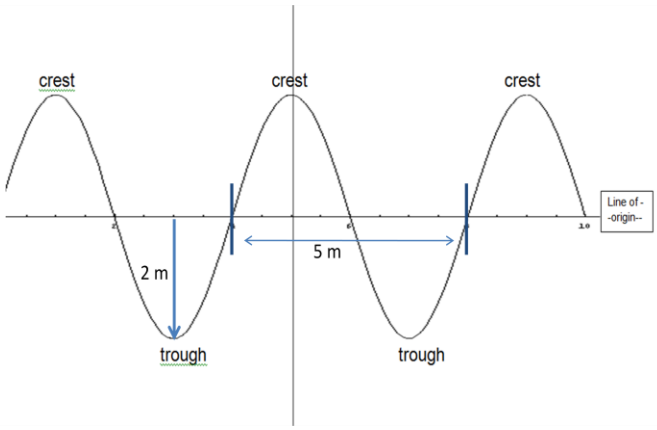
1. Clearly explain the difference between resonance and sympathetic vibration.

2. For a piano identify
   a. The source of sound (hint: Pressing a key is not the correct answer)

   b. The way pitch is changed

   c. What amplifies the sound. Be specific about the part and with what mechanism.

3. The sinusoidal wave shown is traveling in the positive *x*-direction and has a frequency of 66 Hz. Find the
   a. Amplitude
   b. Wavelength
   c. Period
   d. Frequency
   e. Speed of the Wave



$v = \lambda f$ $f = 1/T$