

Name: _____

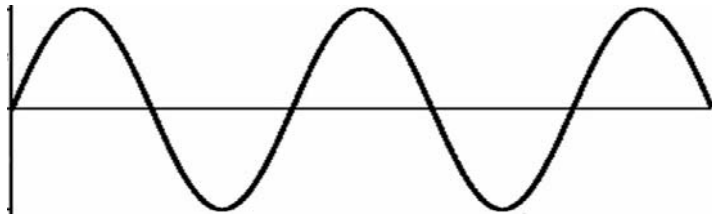
Date: _____

Section C D F

Harmonic Motion I

1. Label the parts of a wave below using these terms below. (2 pts)

- a. Positive Amplitude
- b. Negative Amplitude
- c. Crest
- d. Wavelength
- e. Trough

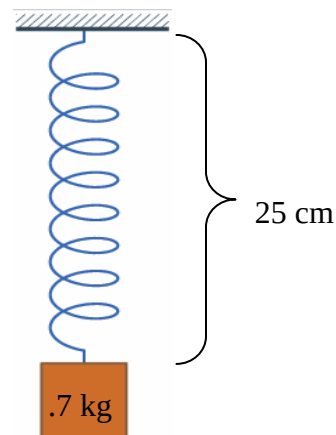


2. How does Wave 1 differ from Wave 2? _____ (1 pt)



3. Can the spring constant be determined from the following picture? Yes No (circle one) (2 pts)

a) Why or why not?



4. If a mass of .55 kg attached to a vertical spring stretches the spring 36 cm from it's equilibrium position, what is the spring constant of the spring? (you should get a number between 10 – 50) (2 pts)

5. Below is a picture of the Golden Gate Bridge, standing 746 feet (227 m), above the waters of San Francisco. If you were to Bungee jump off of this bridge, with a 100 m bungee chord of spring constant 72 N/m, and it were to stretch 75 meters, how much of a force would you exert on it? Give the absolute value of the force. (2 pts)

