CHAPTER 15

1. A 195 g mass is attached to a spring with a stiffness constant of 247 N/m. The mass is pulled up a distance of 98 cm from the equilibrium position and released.

a. What is the period of oscillation?
b. What is the maximum velocity of the mass?
c. What is the maximum acceleration of the mass?
d. Where is the object located 0.823 seconds after the object was released?

2. A 600 g mass is attached to a spring with a stiffness constant of 957 N/m. The mass is pulled up a distance of .200m from the equilibrium position and released.

a. What is the period of oscillation?
b. What is the maximum velocity of the mass?
c. What is the maximum acceleration of the mass?
d. Where is the object located 0.40 seconds after the object was released?