

## Attendance Quiz 12

Name: \_\_\_\_\_ Date : \_\_\_\_\_

1. A 12-lb weight is placed upon the lower end of a coil spring suspended from the ceiling. The weight comes to rest in its equilibrium position, thereby stretching the spring 1.5 in. The weight is then pulled down 2 in. below its equilibrium position and released from rest at  $t=0$ . Find the displacement and frequency of the resulting motion; and graph the displacement as a function of the time.