Problems and Solutions Section 1.1 (1.1 through 1.26)

1.1 Consider a simple pendulum (see Example 1.1.1) and compute the magnitude of the restoring force if the mass of the pendulum is 3 kg and the length of the pendulum is 0.8 m. Assume the pendulum is at the surface of the earth at sea level.

Solution: From example 1.1.1, the restoring force of the pendulum is $mgf \sin \theta$, which has maximum value

$$mgl = 3 \times 9.81 \times 0.81m = 23.8383 \frac{kg.m.m}{sec^2} = 23.8383 \text{ N} \cdot \text{m}$$

- 1.2 Compute the period of oscillation of a pendulum of length 1.2 m at the North Pole where the acceleration due to gravity is measured to be 9.832 m/s².
 - Solution: The natural frequency and period can be computed with the following relationships:

$$\omega_n = \sqrt{\frac{g}{l}}$$

$$\omega_n = \sqrt{\frac{9.832 \frac{m}{s^2}}{1.2m}}$$

$$T = \frac{2\pi}{\omega_n}$$

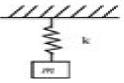
$$\Rightarrow T = 2\pi \sqrt{\frac{1.2}{9.832}}$$

$$T = 2.19s$$

1.3 The spring of Figure 1.2, repeated here as Figure P1.3, is loaded with mass of 10 kg and the corresponding (static) displacement is 0.012 m. Calculate the spring's stiffness.

Solution:

Free-body diagram:





From the free-body diagram and static equilibrium:

$$kx = mg (g = 9.81 m/s^2)$$

$$k = \frac{mg}{x}$$

$$= \frac{10 \cdot 9.81N}{0.01 m} = 8175 N/m$$

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