Hw18a

Tuesday, October 11, 2016

1.
$$V_2 = \sqrt{\frac{k d^2}{m+M}}$$

$$V_{i} = \frac{m+M}{m} \sqrt{\frac{kd^{2}}{m+m}}$$

$$\frac{2}{2} \cdot D = \left(\frac{m}{M+m} v \cot \theta\right)^{2}$$

$$\frac{2}{M+m} v \cot \theta$$

3.
$$\partial = \arccos\left(\frac{3}{2}\right) = 30^{\circ}$$

4.
$$\Delta E = \frac{31}{16} \text{ mv}^2$$