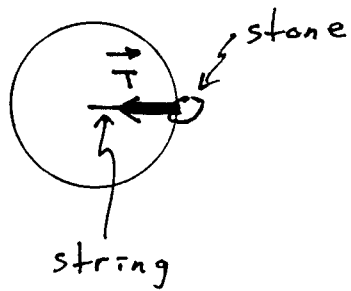


Exercise 9-4



$$\Sigma F = m a_c$$

$$\therefore T = m \frac{v^2}{r}$$

$$\therefore v = \sqrt{\frac{rT}{m}}$$

$$= \sqrt{\frac{(0.850 \text{ m})(575 \text{ N})}{0.950 \text{ kg}}}$$

$$= 22.7 \text{ m/s}$$