

PROB. 11-133

$$s = 8^m, \quad a_n = 10^9 \quad \text{FIND } v$$

$$a_n = \frac{v^2}{s}$$

$$v = \sqrt{a_n s}$$

$$v = \sqrt{(8^m) \left[ 10 \left( 9.81 \frac{m}{s^2} \right) \right]} = 28.0 \frac{m}{s}$$