

Exercise 7-3

↑ +y

$$v_y = v_{0y} + a_y t$$

Assume $v_{0y} = 0$

$$\begin{aligned} \text{so } t &= \frac{v_y}{a_y} \\ &= \frac{900 \text{ m/s}}{50.0 \text{ m/s}^2} \\ &= 18.0 \text{ s} \end{aligned}$$