



Known $h, a, (V_i = 0)$, find t

$$x = V_x t = \sqrt{2gh} t$$

$$\textcircled{1} \quad h = \frac{1}{2} a t^2$$

$$t = \sqrt{\frac{2h}{a}}$$

$$x = \sqrt{2gh} \times \sqrt{\frac{2h}{a}} = 2h \sqrt{\frac{g}{a}} = 2h$$