

$$V_i = 42.0 \text{ m/s}$$

$$a = -9.8 \text{ m/s}^2$$

$$t = 2.6 \text{ sec}$$

$$d = \cancel{d} + V_0 \cdot t + \frac{1}{2}at^2$$

$$= (42.0 \text{ m/s}) \cdot (2.6 \text{ sec}) + \frac{1}{2}(-9.8 \text{ m/s}^2)(2.6 \text{ sec})^2$$

$$\boxed{d = 76 \text{ m}}$$