

7

$$v_0 = 36 \text{ km/h} = 10 \text{ m/s}$$

$$v^2 - v_0^2 = 2ax \text{ より、}$$

$$v = 0.0 \text{ m/s} , v_0 = 10 \text{ m/s} , x = 5\text{m} \text{ を代入して、}$$

$$0.0^2 - 10^2 = 2 \cdot a \cdot 5$$

$$-100 = 10a$$

$$\therefore a = -10 \text{ m/s}^2$$