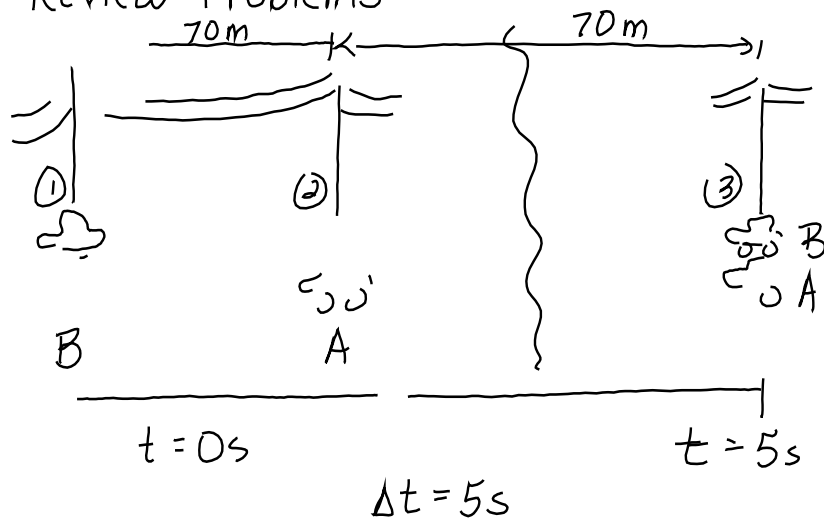


Chapter 2 Review Problems

(12)



a) $\Delta X_A = 70\text{ m}$

b) $\Delta X_B = 140\text{ m}$

c) $v_{\text{avg}} = ? \quad \Delta t = 5\text{ s} \quad \Delta X_A = 70\text{ m}$

$$v_{\text{avg}} = \frac{\Delta X_A}{\Delta t} = \frac{70\text{ m}}{5\text{ s}} = \boxed{14 \frac{\text{m}}{\text{s}}}$$

d) $v_{\text{avg}} = ? \quad \Delta t = 5\text{ s} \quad \Delta X_B = 140\text{ m}$

$$v_{\text{avg}} = \frac{\Delta X_B}{\Delta t} = \frac{140\text{ m}}{5\text{ s}} = \boxed{28 \frac{\text{m}}{\text{s}}}$$