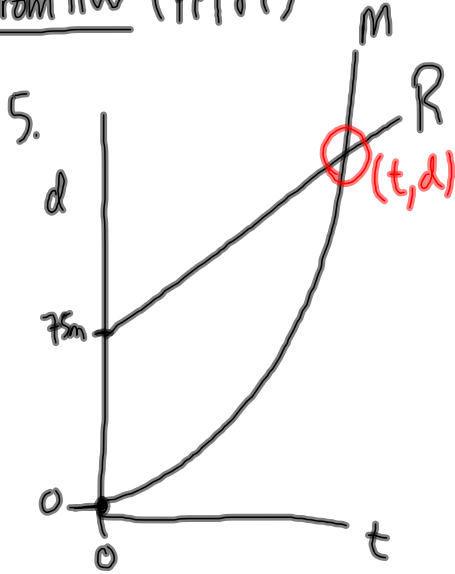


From Hw (pp/89)

Robert - constant velocity

$$v = 4.2 \text{ m/s}$$

$$\Delta d = d - 75 \text{ m}$$

$$\Delta t = t - 0$$

$$v = \frac{\Delta d}{\Delta t}$$

$$\Delta d = v \Delta t$$

$$d - 75 \text{ m} = (4.2 \text{ m/s})(t)$$

$$d = (4.2 \text{ m/s})t + 75 \text{ m}$$

$$y = mx + b$$

Michael → Constant Acc.

$$v_i = 3.8 \text{ m/s}$$

$$a = 0.15 \text{ m/s}^2$$

$$\Delta d = d - 0 = d$$

$$\Delta t = t - 0 = t$$

$$\Delta d = v_i t + \frac{1}{2} a t^2$$

$$d = (3.8 \text{ m/s})t + \frac{1}{2}(0.15 \text{ m/s}^2)t^2$$

$$4.2t + 75 = 3.8t + 0.075t^2$$

Solve using quadratic formula. → $0 = 0.075t^2 - 0.4t - 75$

For Review:

$$p116 | 11-17$$

$$p118 | 1-16$$