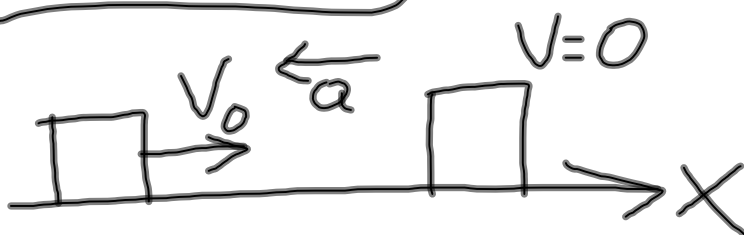


① 737 Prob.)



$$V_0 = 70 \frac{\text{m}}{\text{s}}$$

$$V = 0$$

$$t = ?$$

$$a = -2.5 \frac{\text{m}}{\text{s}^2}$$

$$\Delta x = ?$$

Sep 29-9:01 AM

a) $d_R = 800 \text{ m}$ TO COMPARE THE ACTUAL Δx

$$\Delta x = \frac{V^2 - V_0^2}{2a}$$

$$\Delta x = \frac{0 - 70^2}{2(-2.5)}$$

$$\Delta x = 980 \text{ m} > 800 \text{ m}$$

So, IT IS NOT POSSIBLE TO LAND.

Sep 29-9:07 AM

b)

$$V = V_0 + at$$

$$0 = 70 - 2.5t$$

$$\boxed{t = 28 \text{ s}}$$

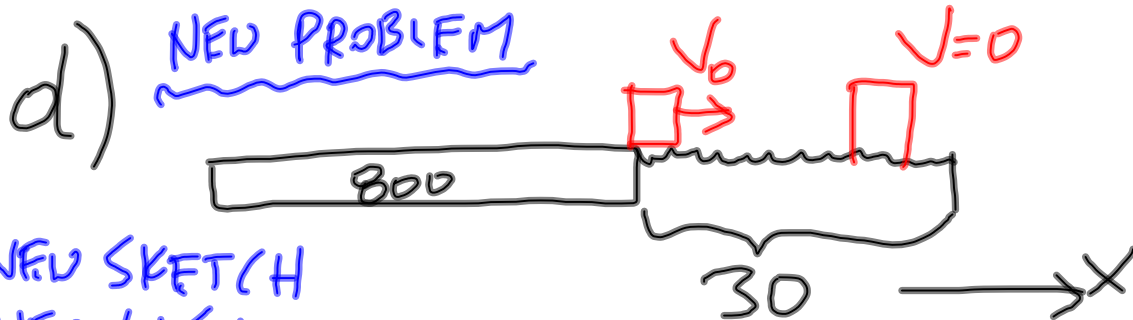
c)

$$\begin{cases} V_0 = 70 \frac{\text{m}}{\text{s}} \\ V = ? \\ t = ? \\ a = -2.5 \frac{\text{m}}{\text{s}^2} \\ \Delta x = 800 \text{ m} \end{cases}$$

$$\Delta x = \frac{V^2 - V_0^2}{2a}$$

$$\boxed{V = 30 \frac{\text{m}}{\text{s}}}$$

Sep 29-9:10 AM



NEW SKETCH

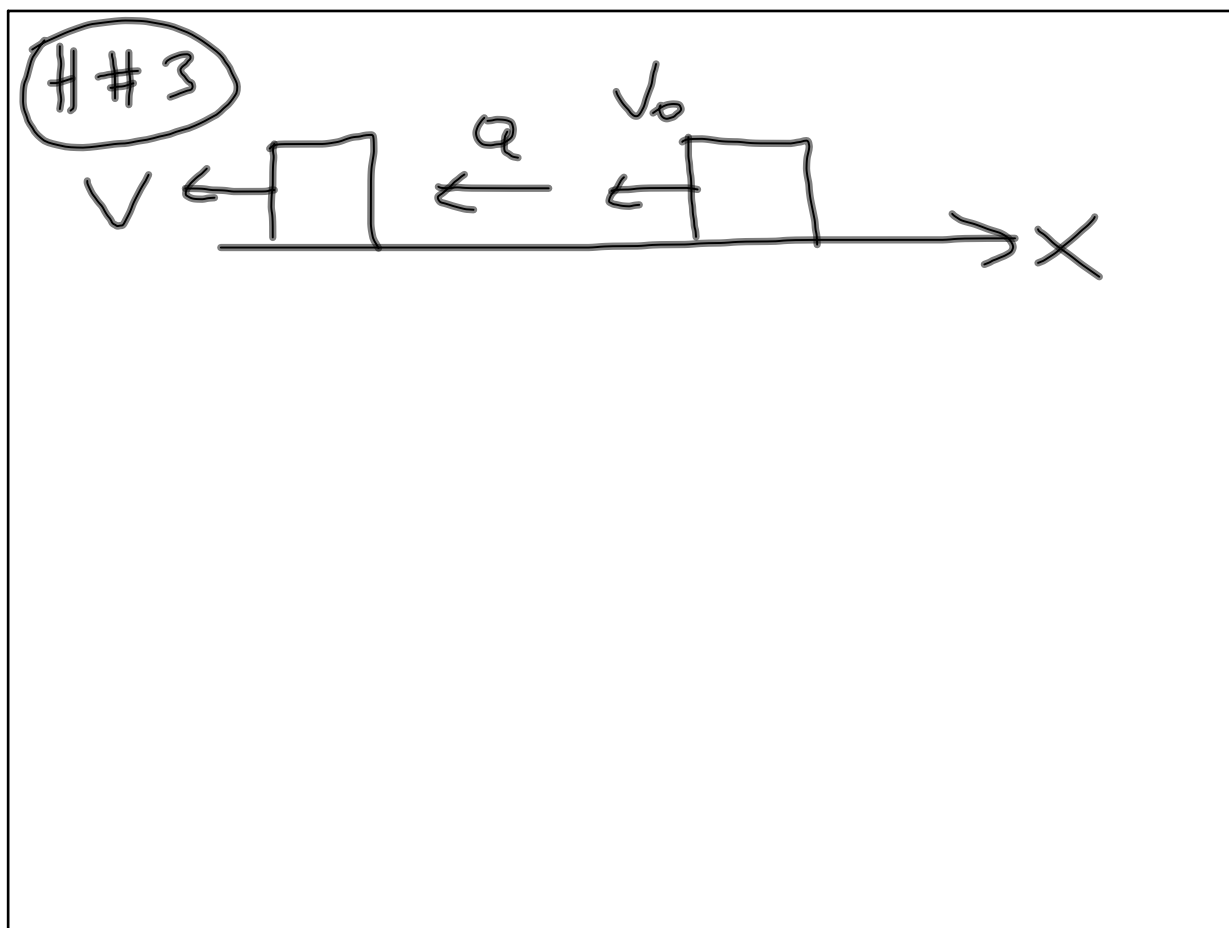
NEW LIST

$$\begin{cases} V_0 = 30 \frac{\text{m}}{\text{s}} \\ V = 0 \\ a = -25 \frac{\text{m}}{\text{s}^2} \\ t = ? \\ \Delta x = ? \end{cases}$$

$$\Delta x = \frac{V^2 - V_0^2}{2a}$$

$$\boxed{\Delta x = 18 \text{ m}}$$

Sep 29-9:14 AM



Sep 30-7:45 AM