



$$90 = \frac{x}{t} \rightarrow x = 90t$$

$$82 = \frac{632-x}{t} \rightarrow 82t = 632-x \rightarrow x = 632-82t$$

$$90t = 632-82t \Rightarrow 90t + 82t = 632$$

$$172t = 632 \Rightarrow t = \frac{632}{172} = \underline{\underline{3,67 \text{ h}}}$$

$$x = 90t = 90 \cdot 3,67 = \underline{\underline{330,3 \text{ km de Huehuetenango}}}$$

②

$$t = 15 \text{ s}$$

$$a = 0,5 \text{ m/s}^2$$

$$e = ?$$

$$v = ?$$

$$v_0 = 0$$

$$v = v_0 + at = 0 + 0,5 \cdot 15 = \underline{\underline{7,5 \text{ m/s}}}$$

$$e = v_0 t + \frac{1}{2} at^2 = 0 + \frac{1}{2} \cdot 0,5 \cdot 15^2 = \underline{\underline{56,25 \text{ m}}}$$

③

$$v_0 = 25 \text{ m/s}$$

$$h = ?$$

$$v = 0$$

$$t = ?$$

$$a = -9,8 \text{ m/s}^2$$

$$v^2 - v_0^2 = 2ae$$

$$0 - 25^2 = 2 \cdot (-9,8) \cdot h \rightarrow h = \frac{-25^2}{-2 \cdot 9,8} = \underline{\underline{31,9 \text{ m}}}$$

$$t = \frac{v - v_0}{a} \rightarrow t = \frac{0 - 25}{-9,8} = \underline{\underline{2,55 \text{ s}}}$$