

$$1- \quad t_s = \frac{v_0}{g}$$

$$1 = \frac{v_0}{10}$$

$$1 = v_0$$

$$2s = \text{tarda}$$

$$2 = 2t_s$$

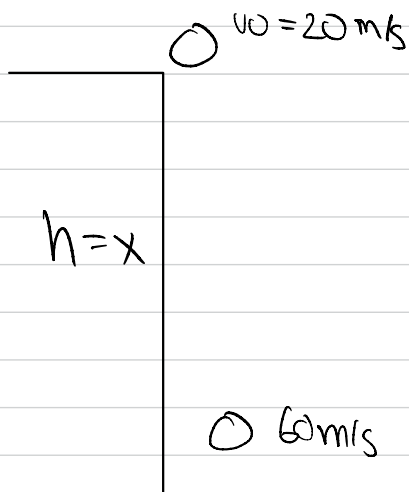
$$1 = t_s$$

$$A_{\text{max}} = \frac{v_0^2}{20}$$

$$= \frac{10 \cdot 10}{20}$$

$$\text{ESm}$$

2-



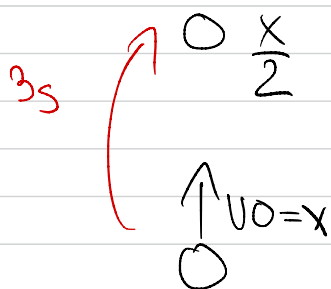
$$v_f^2 = v_0^2 + 2 \cdot 10 \cdot h$$

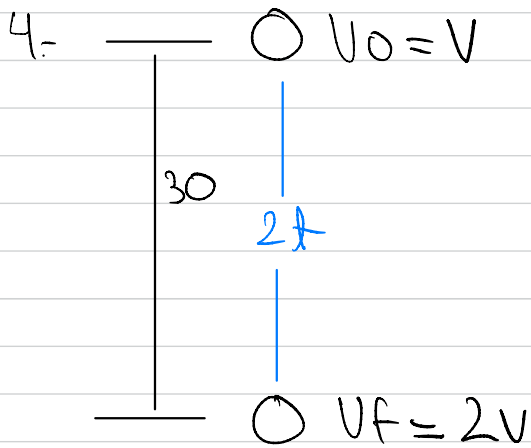
$$60^2 = 20^2 + 20h$$

$$3600 = 400 + 20h$$

$$1600 = h$$

3-





$$v_f = v_0 + gt$$

$$2v = v + 2g$$

$$v = 2g$$

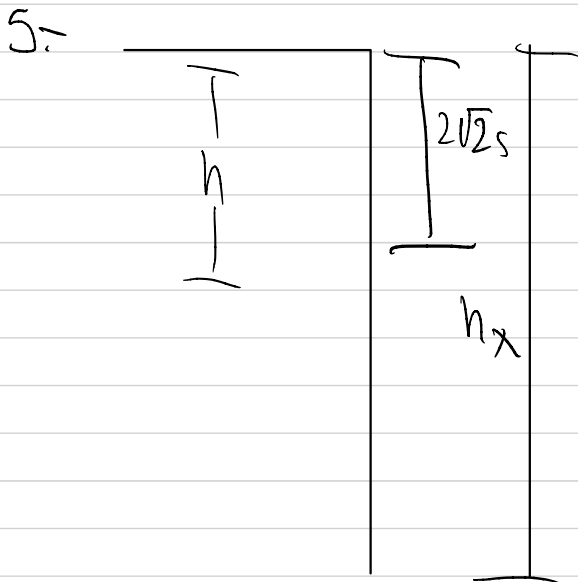
$$10 = 2g$$

$$\frac{5m}{s^2} = g$$

$$h = \frac{v_0 + v_f}{2} \cdot t$$

$$30 = \frac{3v}{2} \cdot 2$$

$$10 = v$$



$$h = 0 + \frac{1}{2} \cdot 10 (2\sqrt{2})^2$$

$$h = \frac{10 (2\sqrt{2})^2}{2}$$

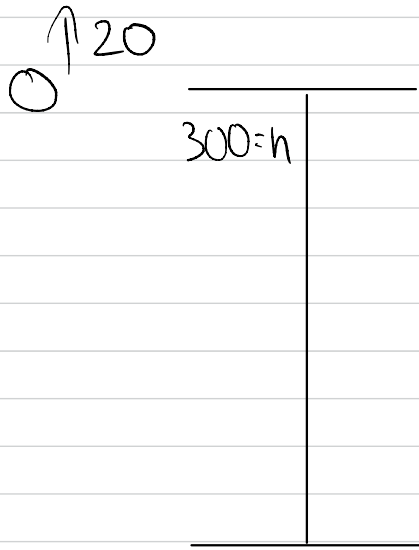
$$2h = 10 (4 \cdot 2)$$

$$2h = 80$$

$$h = 40$$

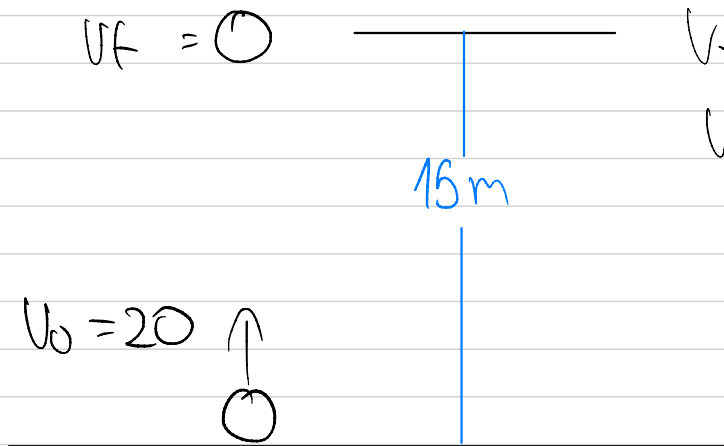
$h_x = \text{altura edificio}$

6-



$$v_f^2 = v_0^2 + 2g(h)$$
$$v_f^2 = 400 + 6000$$
$$v_f = \sqrt{6400}$$
$$v_f = 80 \frac{m}{s}$$
$$v_f = v_0 + g \cdot t$$
$$80 = 20 + 10t$$
$$60 = 10t$$
$$6s = t$$

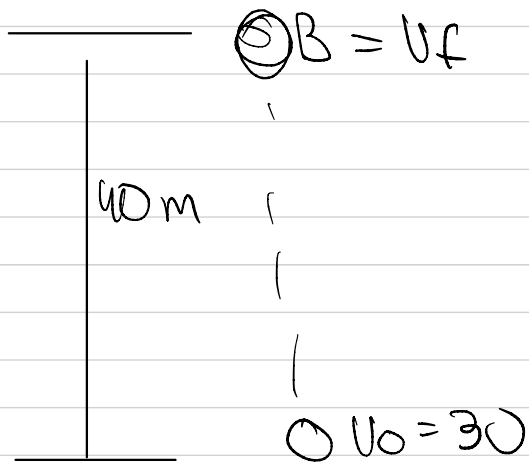
7



$$v_f^2 = v_0^2 - 2g \cdot h$$
$$v_f = 2020 - 20 \cdot 15$$
$$= 400 - 300$$
$$= 100$$

$$v_f = 10 \frac{m}{s}$$

8



$$v_f^2 = v_0^2 - 2g \cdot h$$

$$v_f^2 = 30 \cdot 30 - 2 \cdot 10 \cdot 40$$

$$= 900 - 800$$

$$v_f^2 = 100$$

$$v_f = 10 \frac{\text{m}}{\text{s}}$$