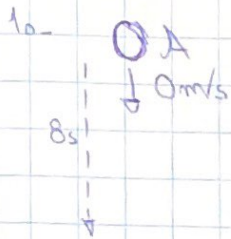
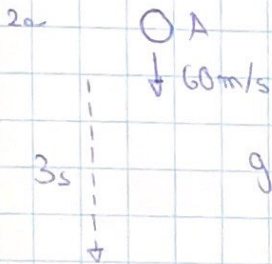


Caída Libre:



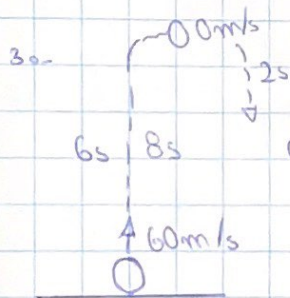
$$g = 10 \text{ m/s}^2$$

$$v_f = v_0 + gt$$
$$v_f = 0 + 10 \cdot 8$$
$$v_f = \underline{80} \text{ m/s}$$



$$g = 10 \text{ m/s}^2$$

$$v_f = 60 + 10 \cdot 3$$
$$v_f = 60 + 30$$
$$v_f = \underline{90} \text{ m/s}$$



$$g = 10 \text{ m/s}^2$$

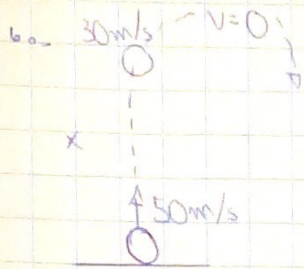
$$t_{\text{sub}} = \frac{v_0}{g}$$
$$= \frac{60}{10} = \underline{6}$$

$$v_f = 0 + 10 \cdot 2$$
$$v_f = \underline{20} \text{ m/s}$$

- 4o.
- I V
 - II F
 - III V

5o.

II lugar - igual - Galileo.



$$t_{sub} = 50$$

$$10$$

$$t_{sub} = 5$$

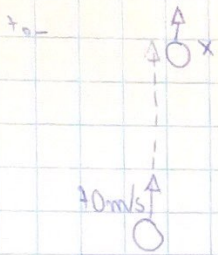
$$v_f = v_0 - gt$$

$$30 = 50 - 10 \cdot t$$

$$10t = 20$$

$$t = 2s$$

$$g = 10 \text{ m/s}^2$$

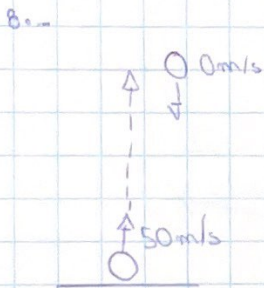


$$v_f = 70 - 10 \cdot 6$$

$$v_f = 70 - 60$$

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

$$g = 10 \text{ m/s}^2$$



$$t_{we} = \frac{50}{10}$$

$$= 5s$$

$$50 \text{ m/s} = 0 + g \cdot t$$

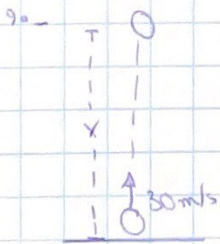
$$50 = 10t$$

$$5 = t$$

$$g = 10 \text{ m/s}^2$$

$$R_{ota} = 5 + 5$$

$$= 10s$$



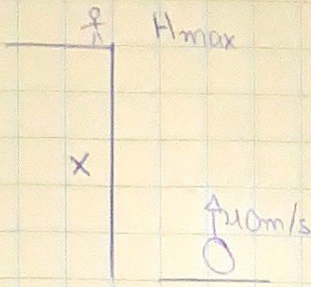
$$H_{max} = \frac{(30)^2}{2(10)}$$

$$= \frac{900}{20}$$

$$= 45$$

10.-

$g = 10 \text{ m/s}^2$

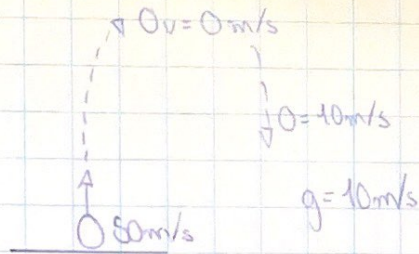


$$H_{\text{max}} = \frac{v_0^2}{2 \cdot 10}$$

$$= \frac{100}{20}$$

$$= 5 \text{ m}$$

11.-



$$t_{\text{sub}} = \frac{v_0}{g}$$

$$= \frac{50}{10}$$

$$= 5 \text{ s}$$

$$v_f = v_0 + g \cdot t$$

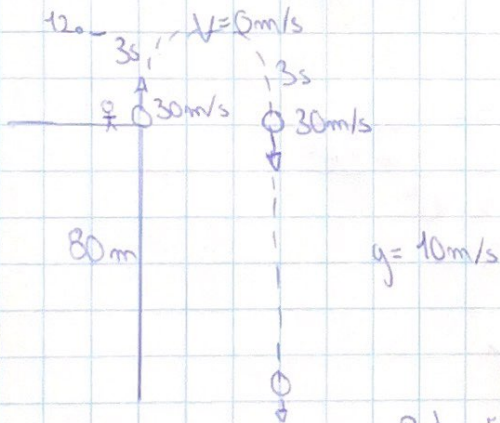
$$10 = 0 + 10 \cdot t$$

$$1 = t$$

$$R_{\text{pta}} = 5 + 1$$

$$= 6 \text{ s}$$

12.-



$$t_{\text{sub}} = \frac{v_0}{g}$$

$$= \frac{30}{10}$$

$$= 3 \text{ s}$$

$$v_f = 0 + 10 \cdot t$$

$$30 = 10t$$

$$3 = t$$

$$H_{\text{max}} = \frac{(30)^2}{2 \cdot 10}$$

$$= 45 \text{ m}$$

$$R_{\text{pta}} = 5 + 3$$

$$= 8 \text{ s}$$

$$125 = v_0 \cdot t + \frac{g \cdot t^2}{2}$$

$$125 = 0 + \frac{10 \cdot t^2}{2}$$

$$125 = 5t^2$$

$$25 = t^2$$

$$5 = t$$

13.-



$$H_{\text{max}} = \frac{(20)^2}{2 \cdot 10}$$

$$= 20 \text{ m}$$

$$t_s = \frac{v_0}{g}$$

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

$$= 2 \text{ s}$$

$$R_{\text{pta}} = 2 \text{ s} + 4 \text{ s}$$

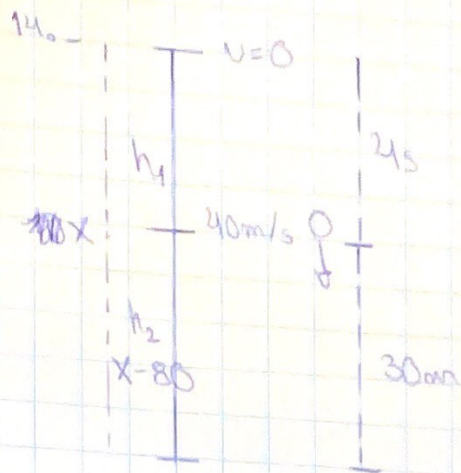
$$= 6 \text{ s}$$

$$60 + 20 = v_0 \cdot t + \frac{g \cdot t^2}{2}$$

$$80 = 0 + 5t^2$$

$$16 = t^2$$

$$4 = t$$



$$v_f = 0 + 10 \cdot 4$$

$$v_f = 40\text{m/s}$$

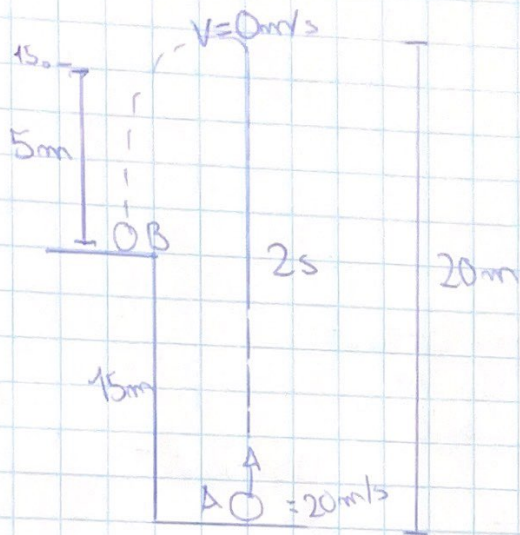
$$x - 80 = 30$$

$$x = 110$$

$$h_f = 0 \cdot t + 5t^2$$

$$h = 5 \cdot 4^2$$

$$h = 80$$



$$H_{\max} = \frac{(20)^2}{2 \cdot 10}$$

$$= 20$$

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

$$= 2\text{s}$$

$$g = 10\text{m/s}^2$$

$$5 = v_{0y} \cdot t + 5t^2$$

$$5 = 0 + 5t^2$$

$$1 = t^2$$

$$1 = t$$

$$t_{\text{web}} = 2\text{s} + 1\text{s}$$

$$= 3\text{s}$$