SAMUEL CHAMPLE, 21881

b) Ascansor

7/4=-12+8(3.37)=19.96m 5.15m

Palota

 $\gamma_{fp} = 0 + 21(3.37) - \frac{9.91}{2}(\frac{3.37}{4.42})^2 = 15.06 \approx 15 \text{m}$

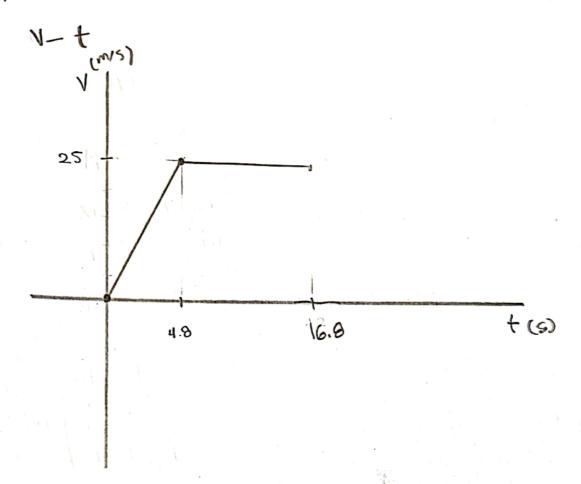
R// se encontraron en los 15m respecto al punto de micio de la pelota.

Datos
$$V_i = 0 \, \text{m/s}$$

$$X_i = -10 \, \text{m}$$

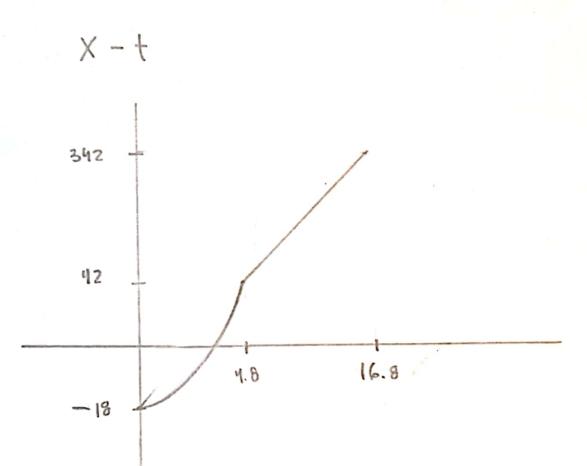
$$A_i =$$

$$+(cm o)$$
 $\sqrt{1 = 12s}$ $\sqrt{1 = 25m/s}$ $\sqrt{1 = 25m/s}$



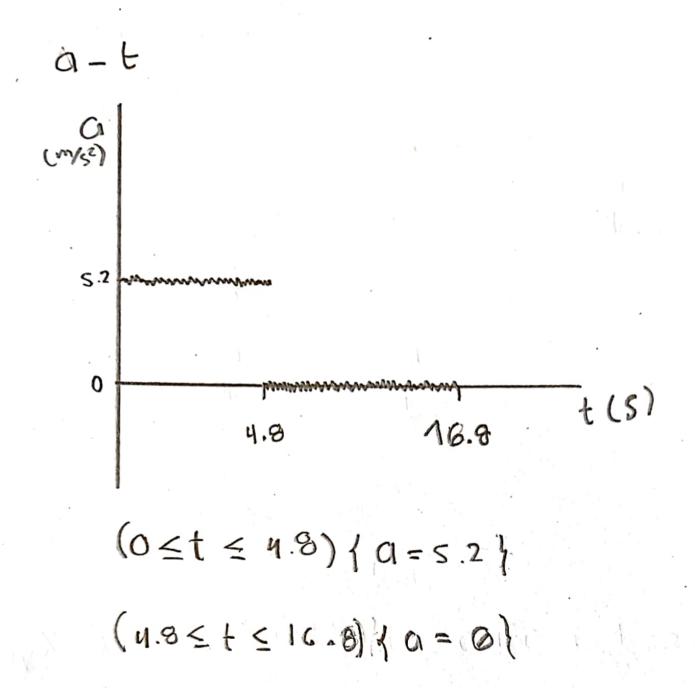
$$V_f = V_1 + Qt$$

 $25m/s = Om/s + 5.2 t$
 $t = \frac{25}{5.2} = 4.8 s$



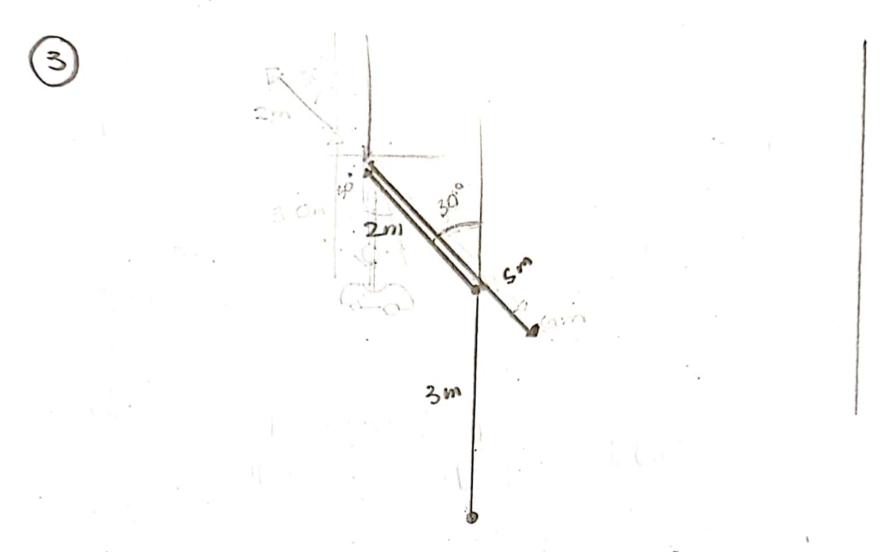
$$t_{10mo_{1}} \begin{cases} X = X_{0} + V_{0}t + \frac{1}{2}at^{2} = -18 + 0 + \frac{1}{2}S.2(4.8)^{2} = 42m \end{cases}$$

 $t_{10mo_{2}} \begin{cases} X = V_{0}t = 2S(12) = 300m \end{cases}$



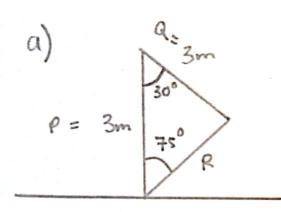
b) La coordenada final x de la partícula es 342m/

c) El trampo en al que alcanzó 25 m/s



b) La distancio recomda fue de

//



$$R^{2} = P^{2} + O^{2} - 2PQ (os(r))$$

$$R = \sqrt{3^{3} + 3^{3} - 2(3)(3)} (os(30^{\circ}))$$

$$R = 1.55m$$

$$R^{2} = P^{2} + O^{2} - 2PQ \quad (oS(r))$$

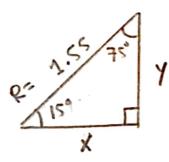
$$R = \sqrt{3^{3} + 3^{3} - 2(3)(3)} \quad (os(30^{\circ}))$$

$$R = 1.55m$$

$$r = (on^{-1}) \left(\frac{5en q}{3} \cdot 1.55 \right)$$

$$r = 75^{\circ}$$

90°-75° = 15°



$$\cos 15^\circ = \frac{4}{155} \rightarrow 1.55 \cos 15^\circ \rightarrow x = 1.49$$