1)
$$\vec{A} = 100(05(50^{\circ}))$$
 of $+ 1005en(50^{\circ})$ of $= 86.6$ nf $+ 50$)

 $\vec{B} = -805en(50^{\circ})$ nf $+ 80Cos(50^{\circ})$ nf $= -40$ nf $+ 69.28$ nf

 $\vec{C} = -40Cos(55^{\circ})$ nf $= 405en(55^{\circ})$ Nf $= -24.1$ nf $= 31.9$ nf

$$\frac{1}{100} \frac{1}{100} = \frac{100}{100} = \frac{100}$$

5) a)
$$161 \frac{\text{km}}{\text{k}} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ h}}{60 \text{ m/n}} \right) = 44,72 \frac{\text{m}}{6}$$

$$1610 \frac{\text{km}}{\text{h}} \left(\frac{1000 \text{m}}{1 \text{km}} \right) \left(\frac{1 \text{min}}{60 \text{min}} \right) = 447,2 \frac{\text{m}}{5}$$

(i)
$$a = \Delta V = A4,72 \text{ m/s} = 5,59 \text{ m} / 62$$
 (ft) $a = 447,2 \text{ m/s} - 44.72 \text{ m/s} = 7,74 \text{ m/s} / 605 - 85$

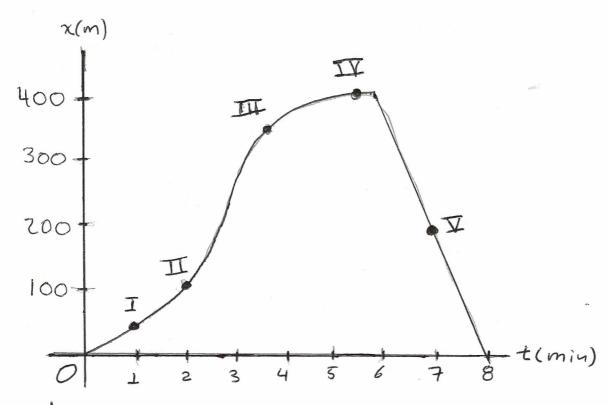
b) (1)
$$\chi_{t} - \chi_{0} = \left(\frac{V_{0} + V_{f}}{2}\right) \cdot t = \left(\frac{0 + 44.72 \,\text{m/s}}{2}\right) \cdot 85 = 179 \,\text{m}$$

(11)
$$\chi_{4} - \chi_{5} = \left(\frac{44,72 + 447,2 \text{ M/s}}{2}\right)(525) = 4,28 \times 10^{4} \text{ m}$$

9)
$$f: 0-145 \quad \chi_{4} = \chi_{5} + \chi_{6}^{0} + \frac{1}{2}at^{2} = \frac{1}{2} \left(1, \frac{6}{5^{2}}\right) (145)^{2} = 157m \neq 1 = 157m \neq 1 = 160 = 2340 = 16.14-705 \quad \chi_{4} = \chi_{5} + Vt = 157m + 22.4 m/s. (705) = 1725m = 1725m$$

t: frenudo.
$$\sqrt{\frac{2}{5}} \sqrt{\frac{2}{6}} + 2a(\chi_f - \chi_0) = 2\chi_f - \chi_0 = \frac{-\sqrt{6}^2}{2a} = -\frac{(22,4 \text{ m/s})^2}{2(-3,5 \text{ m/s}^2)} = 72\text{ m}$$

Solución Ejercicio 4 (2,10)



a) Welocidad igual a cero? IV pendiente = 0

b) de locidad constante y positiva?

I pendiente constante y positiva.

c) Welocidad constante y negativa?

I padiente constante y negativa.

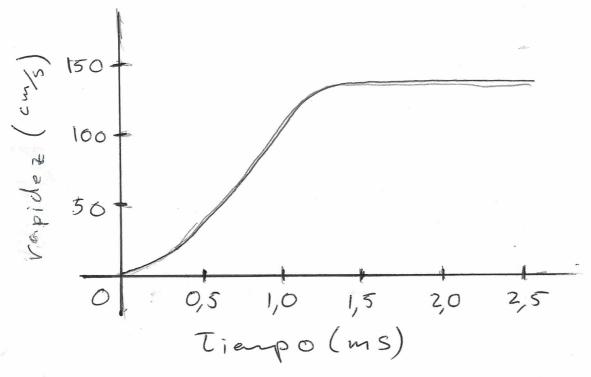
d) d'Velocidad avmentando en magnitud?

Il pendiente aumentando.

e) ¿ Velocidad disminuyendo en magnitud?

III pendiente disminuyendo.

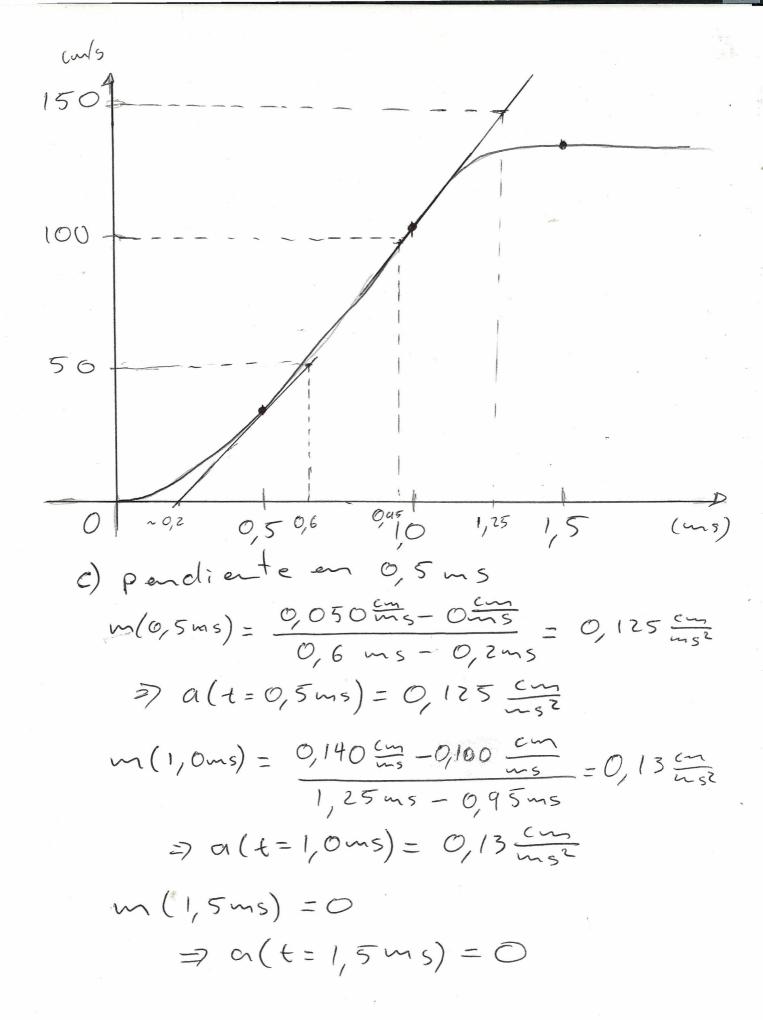
Solución Ejerácio 8 (2,54)



a) Si, despoés de los 1,2 ms la vapidez es cte => a = 0

6) V sando una aproximaciá:

$$\square = (2,5,-1,2)$$
 ms $\times 914\frac{cm}{ms} = 0,182cm$
 $\triangle + \square = 0,266cm$



d) Calculando aveas de maera $\frac{1}{5}$; milar al noneval $\frac{1}{5}$ $\frac{1}{5}$

$$(2.8) \quad v = \frac{dx}{dt}$$

$$\chi(t) = 28.0m + (12.4 \frac{m}{5})t - (0.0450 \frac{m}{5^2})t^3 \dots$$

$$\Rightarrow v(l) = 12.4 \frac{m}{5} - 3(0.0450 \frac{m}{5^2}) l^2$$

$$= 12.4 \frac{m}{5} - 0.135 \frac{m}{5^2} + \frac{1^2}{5^2}$$

$$\therefore v'(L=8.005) = 12.4 \frac{m}{5} - 0.135 \frac{m}{5^2} (8.005)^2 = 3.76 \frac{m}{5}$$

(2.42)
$$d\vec{y} = \vec{v_{0y}} \Delta t + \vec{z} \frac{\Delta t^2}{2}$$

(2) Supongamos que el movimiento del ladrillo esta en
$$\hat{j}$$

(3) Supongamos que el movimiento del ladrillo esta en \hat{j}

(4) $\hat{j} - \hat{j} = Vegat + \frac{\Delta t^2}{2} (-g\hat{j})$

$$\therefore -\frac{1}{9} = -\frac{1}{9} = -\frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{30.6} =$$

(b)
$$\partial = |v_f|^2 - |v_o|^2 | o' | \overline{J} = |v_f| - |v_o|^2 | \Delta F$$

Usemos /a segunda: $V_f = \overline{J} \Delta L + V_0$

$$\overrightarrow{v_f} = (2.505)(9.8 \frac{m}{5^2})(-\hat{j}) = 24.5 \frac{m}{5^2}(-\hat{j})$$

