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Nombre del profesor: Juan jose ojeda

Nombre del trabajo: problema

Materia: física I

Grado: 4 semestre

Grupo: "A"

Comitán de Domínguez Chiapas a 12 de marzo de 2021.

$$1.- \frac{(6.58 \times 10^4)(1.2 \times 10^1)(8.9 \times 10^1)}{8.88 \times 10^{-3}} = \frac{70.2744 \times 10^4}{8.88 \times 10^{-3}}$$

$$= \frac{70.2744}{8.88} (10^{4+3}) = \underline{7.913783784 \times 10^7}$$

$$2.- (5.228 \times 10^3) + (269 \times 10^5) = (522.8 \times 10^5) + (269 \times 10^5)$$

$$= (522.8 + 269)(10^5) = \underline{791.8 \times 10^5}$$

$$.- (20300)(0.898)(0.59) = 9.843876$$

$$(2.0300 \times 10^1)(8.98 \times 10^{-1})(5.9 \times 10^{-1}) = 107.55346 \times 10^0$$

$$= \underline{107.55346 \times 10^2}$$

$$- \frac{(5650000)(0.23565)}{(0.3)(0.88)(0.59)} = \frac{133142.25}{0.15576} = \frac{1.331425 \times 10^5}{1.5576 \times 10^{-1}}$$

$$= 0.8547910247 \times 10^{5+1} = \underline{0.8547910247 \times 10^6}$$

1.- $167 \frac{\text{km}}{\text{hr}}$ a $\frac{\text{m}}{\text{seg}}$

$$167 \frac{\text{km}}{\text{hr}} * \frac{1000\text{m}}{1\text{km}} * \frac{1\text{hr}}{3600\text{seg}} = \frac{167000}{3600} = 46.38 \frac{\text{m}}{\text{seg}}$$

.- $400 \frac{\text{Miles}}{\text{h}}$ a $\frac{\text{m}}{\text{min}}$

$$400 \frac{\text{Miles}}{\text{h}} * \frac{1609\text{m}}{1\text{Mile}} * \frac{1\text{h}}{60\text{min}} = \frac{643600}{60} = 10726.6 \frac{\text{m}}{\text{min}}$$

.- 1500 Nw a Dinas

$$1500 \text{ Nw} * \frac{1 \times 10^5 \text{ Din}}{1 \text{ Nw}} = 1500 \times 10^5 \text{ Din}$$

.- 120 lb a gr

$$120 \text{ lb} * \frac{0.454 \text{ kg}}{1 \text{ lb}} * \frac{1000 \text{ g}}{1 \text{ kg}} = 54480 \text{ gr}$$

.- 560 Galones a m^3

$$560 \text{ Gal} * \frac{3.785 \text{ L}}{1 \text{ Gal}} * \frac{0.001 \text{ m}^3}{1 \text{ L}} = 2.1196 \text{ m}^3$$

- 600 m^2 a pul^2

$$600 \text{ m}^2 * \frac{(100\text{cm})^2}{(1\text{m})^2} * \frac{(1\text{pulg})^2}{(2.54\text{cm})^2} = 930001.86 \text{ pul}^2$$

$$\frac{150.003 \text{ pul}^2}{1 \text{ m}^2}$$

4) DATOS

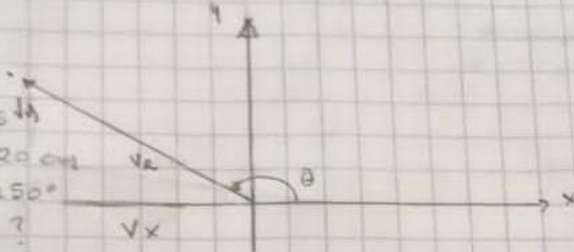
$$V_R = 20 \text{ cm}$$

$$\theta = 150^\circ$$

$$V_x = ?$$

$$V_y = ?$$

ESCALA
1:4



$$V_x = 20 \cos(150^\circ) = -17.32 \text{ cm}$$

$$V_y = 20 \sin(150^\circ) = 10 \text{ cm}$$

5) DATOS

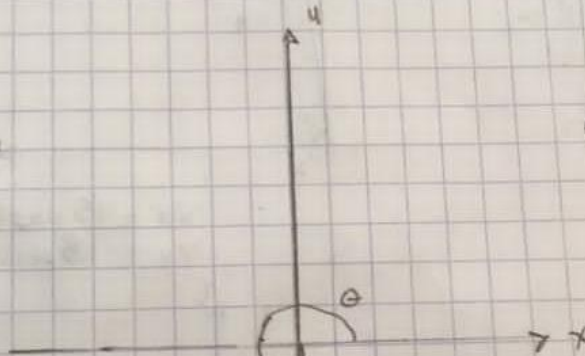
$$V_R = 25 \text{ cm}$$

$$\theta = 280^\circ$$

$$V_x = ?$$

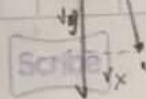
$$V_y = ?$$

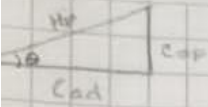
ESCALA
1:5



$$V_x = 25 \cos(280^\circ) = 7.25 \text{ cm}$$

$$V_y = 25 \sin(280^\circ) = -24.6 \text{ cm}$$





$$\text{Sen} = \frac{\text{Opp}}{\text{Hip}} \quad \text{Cos} = \frac{\text{Ad}}{\text{Hip}}$$

$$V_x = V_r \cos \theta$$

$$V_y = V_r \text{sen} \theta$$

ESCALA
1:2

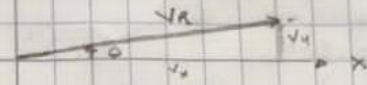
DATOS

$$V_r = 10 \text{ cm}$$

$$\theta = 10^\circ$$

$$V_x = ?$$

$$V_y = ?$$



$$V_x = 10 \cos(10^\circ) = 9.8 \text{ cm}$$

$$V_y = 10 \text{ sen}(10^\circ) = 1.7 \text{ cm}$$

DATOS

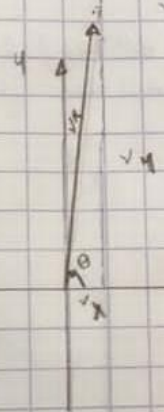
$$V_r = 15 \text{ cm}$$

$$\theta = 85^\circ$$

$$V_x = ?$$

$$V_y = ?$$

ESCALA
1:3



$$V_x = 15 \cos(85^\circ) = 1.3 \text{ cm}$$

$$V_y = 15 \text{ sen}(85^\circ) = 14.9 \text{ cm}$$

DATOS

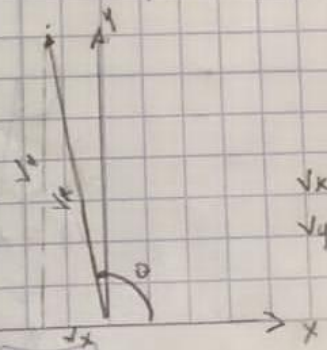
$$V_r = 5 \text{ cm}$$

$$\theta = 100^\circ$$

$$V_x = ?$$

$$V_y = ?$$

ESCALA
1:1



$$V_x = 5 \cos(100^\circ) = -1.7 \text{ cm}$$

$$V_y = 5 \text{ sen}(100^\circ) = 4.7 \text{ cm}$$

Scribe