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Matriculas:

2023-1283.

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Materia:

Física Eléctrica

Profesor:

Lidia Noelia Almonte Rosario.

Tema:

Evidencia del Examen Final

(2)

$F = I L B \operatorname{sen}(\theta)$

$F = 2.40A\,(0.750m)(1.60T)(\operatorname{sen} 90^\circ)$

$F = 2.40A\,(0.750m)(1.60T)(1)$

$\boxed{F = 2.88N}$

Datos

$I = 2.40\,A$

$L = 0.750\,m$

$\theta = 90^\circ$

$B = 1.60T$

(4) Datos

$q = 2.00\,\mu C \rightarrow 2.00 \times 10^{-6} C$

$F = 8.00 \times 10^{-4} N$

$K = 9 \times 10 N \times m / C^2 \quad N \times m^2$

$\varepsilon = 8.85 \times 10 C / N \times m^2$

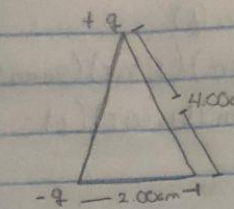
$E = \frac{F}{q}$

$E = \frac{8.00 \times 10^{-4} N}{2.00 \times 10^{-6} C}$

$E = \frac{0.0008 N}{0.000002 C}$

$\boxed{E = 400 N/C}$

(7)



$(4\times10^{-2})^2 = (h)^2 + (1\times10^{-2})^2$

$h = \sqrt{(4\times10^{-2})^2 - (1\times10^{-2})^2}$

$h = 0.0387\,m$

$V_P = V_1 + V_2 + V_3$

$V_P = K\left(\frac{q_1}{r_1} + \frac{q_2}{r_2} + \frac{q_3}{r_3}\right)$

$V_P = 9\times10^4\left(\frac{(7\times10^{-6})}{h} + \frac{(-7\times10^{-6})}{(1\times10^{-2})} + \frac{(-7\times10^{-6})}{(1\times10^{-2})}\right)$

$V_P = 9\times10^4)(-1.219\times10^{-3})$

$V = 10.97\,mV$

(9)

Datos

$m = 1.67\times10^{-27}\,kg$

$C = 1.60\times10^{-19}$

$V_b - V_a = -\frac{1}{2}\frac{m(V_b^2 - V_A^2)}{q}$

$= \frac{(1.67\times10^{-27}kg)(3.9\times10^8 m^2/s^2)}{3.2\times10^{-19}C}$

$= -20.35\,V$

Jesus Alberto Beato Pimentel

2023-1283

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