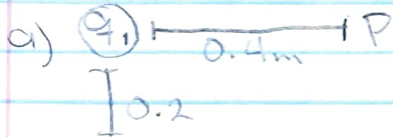


Física General

Potencial eléctrico

1.- Calcular el potencial eléctrico en el punto P de las sig. figuras:



$$+q_1 = 15 \text{ nC}$$

$$-q_2 = 9 \text{ nC}$$

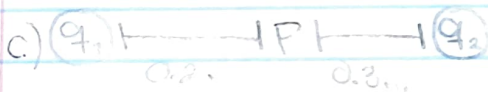
$$V = 9 \times 10^9 \left(\frac{15 \times 10^{-9}}{0.4} - \frac{9 \times 10^{-9}}{0.2} \right) = \underline{\underline{-67.5 \text{ V}}}$$



$$-q_1 = 5 \text{ nC}$$

$$+q_2 = 8 \text{ nC}$$

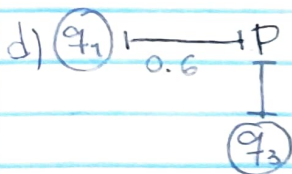
$$V = 9 \times 10^9 \left(\frac{5 \times 10^{-9}}{0.3} + \frac{8 \times 10^{-9}}{0.3} \right) = \underline{\underline{90 \text{ V}}}$$



$$-q_1 = 4 \text{ nC}$$

$$+q_2 = 12 \text{ nC}$$

$$V = 9 \times 10^9 \left(-\frac{4 \times 10^{-9}}{0.2} + \frac{12 \times 10^{-9}}{0.7} \right) = \underline{\underline{-23.7 \text{ V}}}$$



$$V = 9 \times 10^9 \left(-\frac{8 \times 10^{-9}}{0.6} - \frac{6 \times 10^{-9}}{0.45} + \frac{10 \times 10^{-9}}{0.3} \right) = \underline{\underline{60 \text{ V}}}$$

$$-q_1 = 8 \text{ nC}$$

$$-q_2 = 6 \text{ nC}$$

$$+q_3 = 10 \text{ nC}$$