8/10/19

GRUPO 2

Cálculo de $\vec{E}$

- $V_p = 6V$ $\begin{cases} X = 15,9\ cm & \Delta X = 1\ cm \\ Y = 12\ cm & \Delta Y = 1\ cm \end{cases}$

- $V_{p'} = 6,97\ V$ $\begin{cases} \Delta X = 1\ cm \\ \Delta Y = 0\ cm \\ \Delta V = 0,97\ V \end{cases}$

- $V_{p''} = 6,37\ V$ $\begin{cases} \Delta X = 0\ cm \\ \Delta Y = 1\ cm \\ \Delta V = 0,37\ V \end{cases}$

- $E_x \cong \frac{-\Delta V}{\Delta X} = \frac{-0,97\ V}{1\ cm} \cdot \frac{100\ cm}{1\ m} = \boxed{-97\ \frac{V}{m}}$

- $E_y \cong \frac{-\Delta V}{\Delta Y} = \frac{-0,37\ V}{1\ cm} \cdot \frac{100\ cm}{1\ m} = \boxed{-37\ \frac{V}{m}}$

- $|E| = \sqrt{E_x^2 + E_y^2} = \sqrt{(-97\ V/m)^2 + (-37\ V/m)^2} = \boxed{103,81\ V/m}$

- $\theta = \operatorname{arctg}\left[\frac{(-37\ V/m)}{(-97\ V/m)}\right] = \boxed{20°52'44''}$