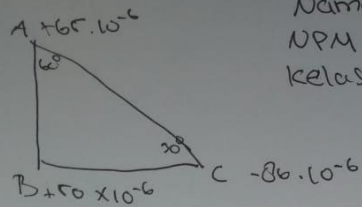


27103/2023

Nama = Muhammad Tarmidzi B

NPM = 51422161

Kelas = 11A13



$$E_B = k \frac{q_B}{r^2} = 9 \cdot 10^9 \frac{50 \cdot 10^{-6}}{(3 \cdot 10^{-1})^2} = 50 \times 10^5$$

$$E_C = k \frac{q_C}{r^2} = 9 \cdot 10^9 \frac{86 \cdot 10^{-6}}{(6 \cdot 10^{-1})^2} = 21,5 \times 10^5$$

$$E_{Cx} = E_C \sin 60^\circ = 1,86 \times 10^6$$

$$E_{Cy} = E_C \cos 60^\circ = 1,075 \times 10^6$$

$$E_x = 1,075 \times 10^6 - 5 \times 10^6$$
$$= -3,93 \times 10^6$$

$$E = \sqrt{(1,86 \times 10^6)^2 + (3,93 \times 10^6)^2}$$
$$= 4,35 \times 10^6 \text{ N/C}$$