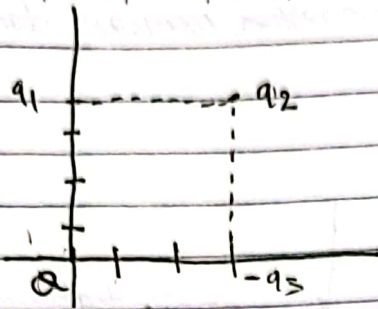
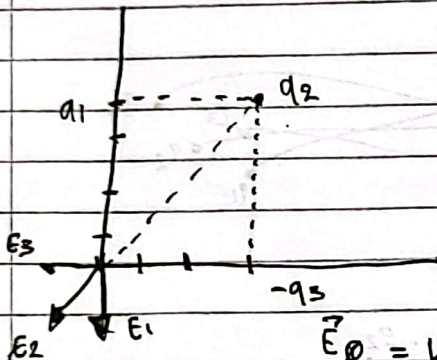


ARIYA MUSTOFA 2313022067

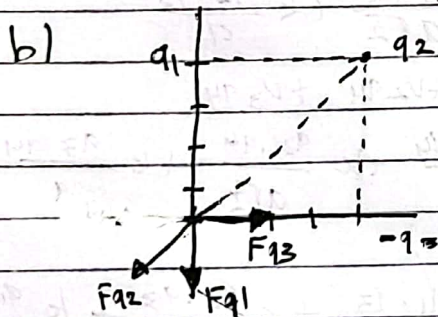


- Hitung medan listrik
- Hitung gaya listrik
- Hitung potensial listrik
- Hitung usaha W , memindahkan ke 4 muatan tsb



$$\vec{E}_0 = k \left[\frac{q_1}{4^2} (-j) + \frac{q_2}{5^2} \left(\frac{-3i - 4j}{5} \right) + \frac{q_3}{3^2} (i) \right]$$

$$a) \quad \vec{E}_0 = k \left[(-i) \left[\frac{q_1}{5^2} \cdot \frac{-3}{5} \right] + \frac{q_3}{3^2} \right] + j \left[\left(\frac{q_1}{4^2} \right) \frac{4}{5^2} - \frac{4}{5} \right]$$



$$F_0 = k \left(\frac{q_1}{4^2} (-j) + \frac{q_2}{5^2} \left[\frac{-3i - 4j}{5} \right] + \frac{q_3}{3^2} (i) \right)$$

$$c) \quad V_P = k \left[\frac{q_1}{4} + \frac{q_2}{5} - \frac{q_3}{3} \right]$$

$$F_0 = k_0 \left[i \left[\frac{q_1}{5^2} \cdot \frac{3}{5} + \frac{q_3}{3^2} \right] \right]$$

$$d) \quad W_1 = 0$$

$$W_0 = V_{10} + V_{20} + V_{30}$$

$$= k \frac{q_1 q_0}{4} + k \frac{q_2 q_0}{5} + k \frac{q_3 q_0}{3}$$

$$-j \left[\frac{q_1}{4^2} + \frac{q_2}{5^2} \cdot \frac{4}{5} \right]$$