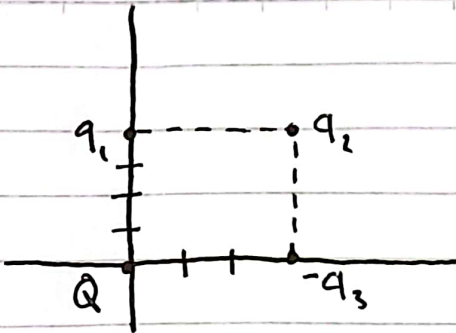
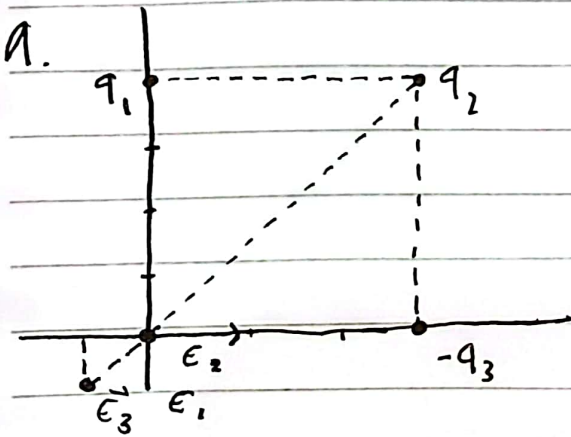


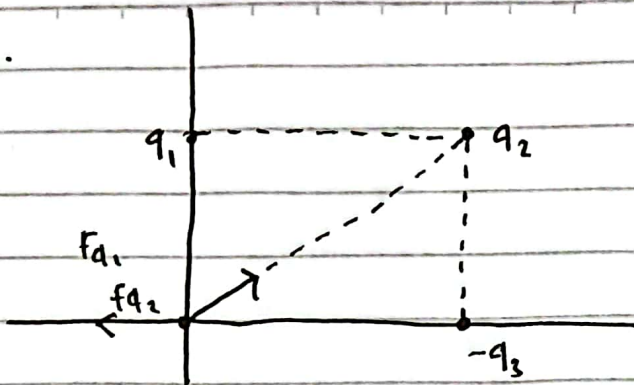


- hitung Medan listrik di titik (0,0)
- hitung gaya listrik di titik (0,0)
- hitung potensial listrik di titik (0,0)
- hitung usaha ^{untuk} memindahkan ke q Muatan tersebut!



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

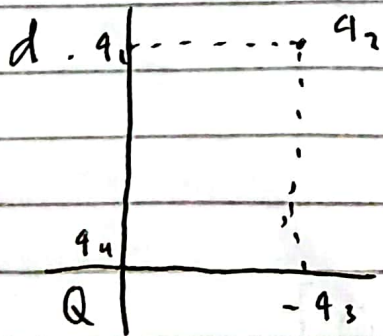
b.



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

$$= kQ \left[\hat{i} \left(\frac{q_2}{3^2} \right) - \frac{q_3}{3^2} + \right]$$

$$C. V_p = k \left[\frac{q_1}{4} + \frac{q_2}{5} - \frac{q_3}{3} \right]$$



$$W_1 = 0$$

$$W_2 = V_1 - q_2$$

$$= k \frac{q_1 q_2}{3}$$

$$W_3 = V_1 - q_3 + V_2 - q_3$$

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

$$W_4 = V_1 - q_4 + V_2 - q_4 + V_3 - q_4$$

$$= k \frac{q_1 q_4}{4} + k \frac{q_2 q_4}{5} + k \frac{q_3 q_4}{3}$$