: Kelistrikan dan Kemagnetan.
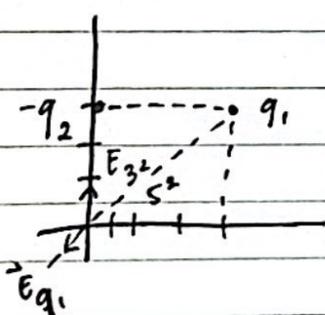
listrik statis

$K = \dfrac{1}{4\pi\,(\varepsilon_0)}$
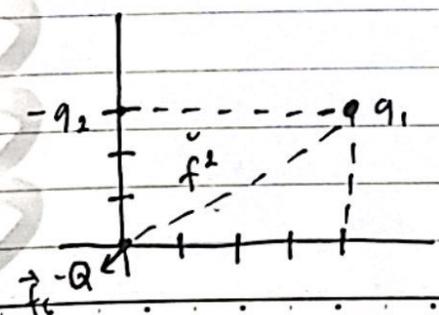
$\left(\dfrac{q}{g}\right) =$
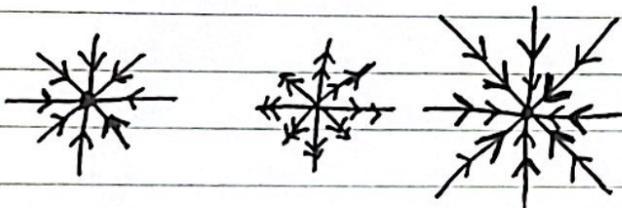
Contohnya:

$5 = $ phytagoras.

$3 = $ jarak

$$\vec{E}_{(0)} = K\left[\dfrac{q_2}{3^2}(\hat{y}) + \dfrac{q_1}{5^2}\left(\dfrac{-4\hat{i} - 3\hat{j}}{5}\right)\right]$$

$$= K\left[-4\dfrac{q_1}{125}\hat{i} + \left(\dfrac{q_2}{9} - \dfrac{39}{125}\right)\hat{j}\right]$$

$$|\vec{E}| = \sqrt{\left(-4\dfrac{q_1}{125}\right)^2 + \left(\dfrac{q_2}{9} - \dfrac{39}{125}\right)^2}$$

$$=$$

$$= KQ\left[\dfrac{q_2}{3^2}(q^2) + \dfrac{q_1}{5^2}\left(\dfrac{-4\hat{i} - 3\hat{j}}{5}\right)\right]$$

$$\vec{F}_a = KQ\left[\dfrac{q_2}{3^2}(-\hat{y}) + \dfrac{q}{5^2}\left(\dfrac{4\hat{i} - 3\hat{j}}{5}\right)\right]$$