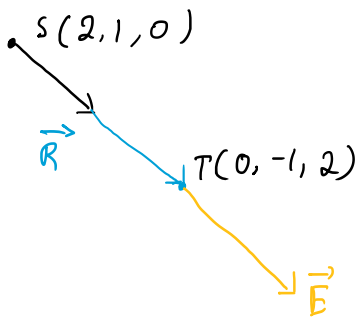


$$Q = 2 \text{ nC}$$



$$\vec{E} = k \frac{Q}{R^2} \vec{a}_R$$

$$= 9 \cdot 10^9 \frac{Q}{R^2} \vec{a}_R$$

$$\begin{aligned} \vec{R} &= (0-2)\vec{a}_x + (-1-1)\vec{a}_y + (2-0)\vec{a}_z \\ &= -2\vec{a}_x - 2\vec{a}_y + 2\vec{a}_z \end{aligned}$$

$$\begin{aligned} \text{Jarak } R &= |\vec{R}| = \sqrt{(-2)^2 + (-2)^2 + 2^2} \\ &= \sqrt{12} = 2\sqrt{3} \end{aligned}$$

$$\vec{a}_R = \frac{\vec{R}}{|\vec{R}|} = \frac{-\vec{a}_x - \vec{a}_y + \vec{a}_z}{\sqrt{3}}$$

$$\vec{E} = 9 \cdot 10^9 \cdot \frac{2 \cdot 10^{-9}}{(2\sqrt{3})^2} \cdot \left(\frac{-\vec{a}_x - \vec{a}_y + \vec{a}_z}{\sqrt{3}} \right)$$


$$= \frac{9 \cdot \cancel{2}}{\cancel{4} \cdot 3} \left(\frac{-\vec{a}_x - \vec{a}_y + \vec{a}_z}{\sqrt{3}} \right)$$

$$= \frac{(\sqrt{3})^3}{2(\sqrt{3})^3} (-\vec{a}_x - \vec{a}_y + \vec{a}_z)$$

$$= -0,866 \vec{a}_x - 0,866 \vec{a}_y + 0,866 \vec{a}_z$$

Tim/Kelas : 5/TT-43-11
Ketua : M. Hasyim Abdillah P. (1101191095)
Anggota 1 : Sayid Huseini Elfarizi (1101194232)
Anggota 2 : M. Fadhilah R. R. (1101194286)

Jawaban soal No. 1 sampai 4 pada video 1





Hasyim Abdillah 1 hari yang lalu (diedit)

Answer #1 (M. Hasyim Abdillah P., Sayid Huseini Elfarizi, Muhammad Fadhilah Rafii' Ramadhan): menit [1:23](#)

Answer #2: menit [1:15](#)

Answer #3: menit [2:03](#)

Answer #4: menit [3:23](#)

 1 

BALAS