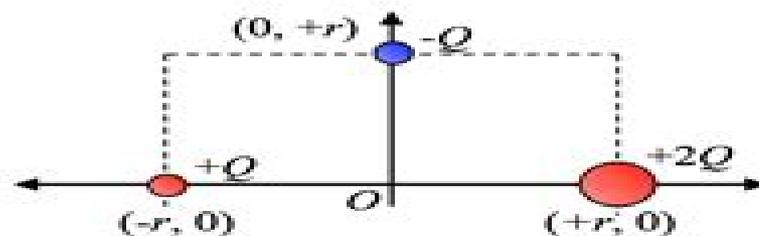


Question:

Three point charges of $+Q$, $+2Q$, and $-Q$ are each located a distance r away from the origin, as shown above. The magnitude of the electric field at the origin due to these charges is:

- $\frac{2kQ}{r^2}$
- $\frac{2kQ^2}{r^2}$
- $\frac{2kQ}{r}$
- $\frac{\sqrt{2}kQ}{r^2}$
- $\frac{\sqrt{2}kQ}{2r^2}$

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Answer:

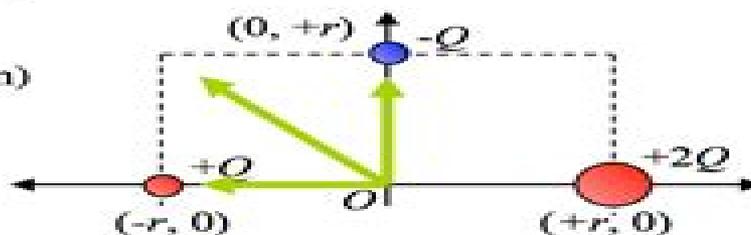
The correct answer is *d*. The electric field at the origin can be found by considering the sum of the electric fields of the three particles. This can be quickly determined by considering that there is an electric field in the $-x$ direction due to a net $+1Q$ at the $(+r, 0)$ position, and an electric field in the $+y$ direction due to the $1Q$ charge at $(0, +r)$. Add these components together to get the answer. Or, mathematically:

$$E_{\text{net}} = \sum E_{+Q} + E_{+2Q} + E_{-Q}$$

$$E_x = +\frac{kQ}{r^2} - \frac{k2Q}{r^2} = -\frac{kQ}{r^2} \text{ (in the } x \text{ - direction)}$$

$$E_y = +\frac{kQ}{r^2} \text{ (in the } y \text{ - direction)}$$

$$E_{\text{net}} = \sqrt{\left(-\frac{kQ}{r^2}\right)^2 + \left(+\frac{kQ}{r^2}\right)^2} = \frac{\sqrt{2}kQ}{r^2}$$



Holt Physics Electric Forces And Fields Problems

Joacim Rocklöv



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