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Each charge contribution (as vector) to the net Electric field (a vector) at a certain point P with magnitude

$$E = \frac{1}{4\pi\epsilon_0} \cdot \frac{q}{r^2}$$

Direction wise, negative charges have fields pointing toward them, positive, away.

So, if we want perpendicular field in point P, then, at that point the contributing fields generated have to be

oppositely directed and equal in magnitude.

In between the charges, the fields point both to the right (away from +, toward -). So, nope.

To the right of the (-2q) charge, fields DO point in the opposite directions, but, say point there is CLOSER to the right charge, and the component of the weaker charge will not cancel it.

So what we have left is P being to the left of both of them. The distance x from the left charge should be such that

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$$\frac{1}{4\pi\epsilon_0} \cdot \frac{q}{x^2} = \frac{1}{4\pi\epsilon_0} \cdot \frac{2q}{(r+x)^2}$$

resulting in

$$(r+x)^2 = 2x^2$$

$$(r+x+x\sqrt{2})(r+x-x\sqrt{2}) = 0$$

which has a positive solution...

The answer to (b) is NO.

because the contributions to the electric field could not cancel, since they would not be on THE SAME LINE.

to the left of both
no.

Fundamental Of Physics 8th Edition Solution

David Halliday, Robert Resnick, Jearl Walker



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