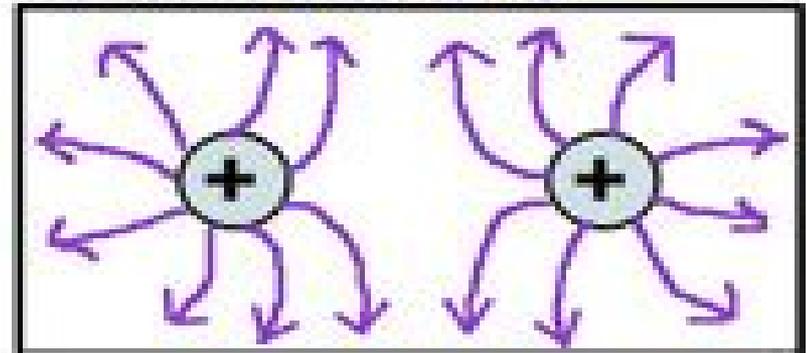
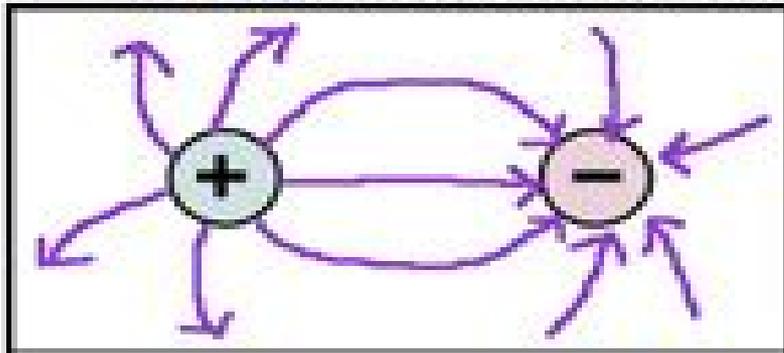


1. Sketch the electric fields for each diagram below. Assume the strength of the charges are identical in magnitude. Identify any locations on the diagram where the electrical field strength is zero.



2. A particle of unknown charge is placed close to a negatively charged sphere. Upon release, the particle accelerates away from the sphere.



- a. What can be concluded about the charge of the particle? Explain.

This particle must also be negatively charged, since it was repelled by the negatively charged sphere. Like charges repel.

- b. The particle has a mass of 1 mg ( $1 \times 10^{-6}$  kg) and experiences an initial acceleration of  $0.3 \text{ m/s}^2$  directly away from the sphere at its starting location. Derive an equation for the strength of the electric field,  $E$ , at this initial position, in terms of  $q$ , the charge of the particle.

$$m = 1 \times 10^{-6} \text{ kg}$$

$$a = 0.3 \text{ m/s}^2$$

$$\Sigma F = ma$$

$$\Sigma F = (1 \times 10^{-6})(0.3)$$

$$\Sigma F = 3 \times 10^{-7} \text{ N}$$

$$F_E = \Sigma F$$

$$F_E = 3 \times 10^{-7} \text{ N}$$

$$E = F_E / q$$

$$E = \frac{3 \times 10^{-7}}{q}$$

- c. As the distance between the particle and the sphere increases, what happens to the magnitude of the electric field? Select one.

Increases linearly

Linearly quadratically

Does not change

Decreases linearly

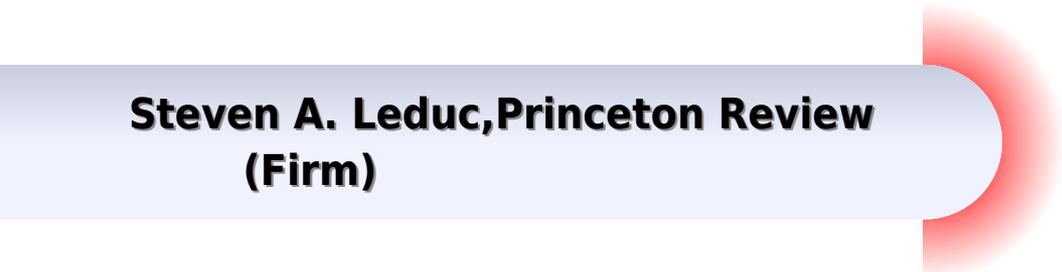
Decreases quadratically

Justify your selection.

The electric force decrease quadratically as the distance increases (Coulomb's law,  $F_E \propto 1/r^2$ ). Since  $F_E$  is decreasing quadratically, then so much the electric field, as electric field and electric force have a linear relationship ( $E = F_E / q$ ,  $E \propto F_E$ ).

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**Steven A. Leduc, Princeton Review  
(Firm)**



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