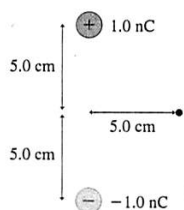


1. What magnitude charge creates a 1.0 N/C electric field at a point 1.0 m away?
2. What are the strength and direction of the electric field 2.0 cm from a small glass bead that has been charged to $+6.0 \text{ nC}$?
3. The electric field 2.0 cm from a small object points toward the object with a strength of $180,000 \text{ N/C}$. What is the object's charge?

4. What are the strength and direction of the electric field at the position indicated by the dot in the figure below? Specify the direction as an angle above or below the $+x$ or $-x$ axis.



5. What are the strength and direction of the electric field at the position indicated by the dot in the figure below? Specify the direction as an angle above or below the $+x$ or $-x$ axis.

