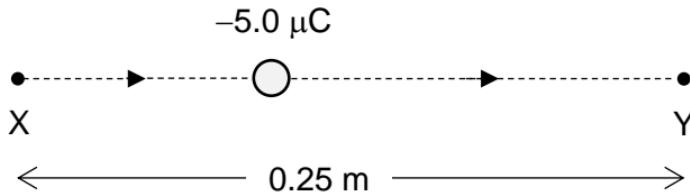


- 21** A particle of charge $-5.0 \mu\text{C}$ is projected from X towards Y with kinetic energy $250 \mu\text{J}$. When the particle is at Y which is 0.25 m away from X, its kinetic energy decreased to $150 \mu\text{J}$.



Which of the following statements may not be correct?

- A** X is at a higher electric potential than Y.
- B** The potential difference between X and Y is 20 V .
- C** The electric field between X and Y is of uniform strength 80 N m^{-1} .
- D** The electric field between X and Y is directed towards Y.