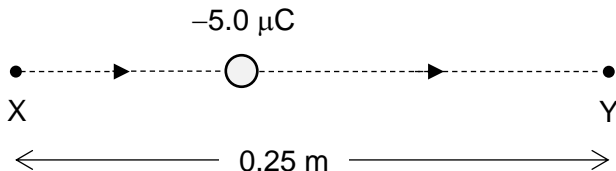


- 21** A particle of charge  $-5.0 \mu\text{C}$  is projected from X towards Y with kinetic energy  $250 \mu\text{J}$ . When the particle is at Y which is  $0.25 \text{ m}$  away from X, its kinetic energy decreased to  $150 \mu\text{J}$ .



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  $20 \text{ V}$ .
- C** The electric field between X and Y is of uniform strength  $80 \text{ N m}^{-1}$ .
- D** The electric field between X and Y is directed towards Y.