

19 Which statement is **not** correct?

- A The electric potential at a point can be zero even though the electric field at that point is not zero.
- B The electric field at a point can be zero even though the electric potential at that point is not zero
- C As the distance from a positive point charge increases, the electric potential gradient decreases.
- D A charged particle under the action of an electric force will always move from a region of higher electric potential to a region of lower electric potential.

20 A metal wire of length 20 cm and uniform cross sectional area contains 4.8×10^{22} free