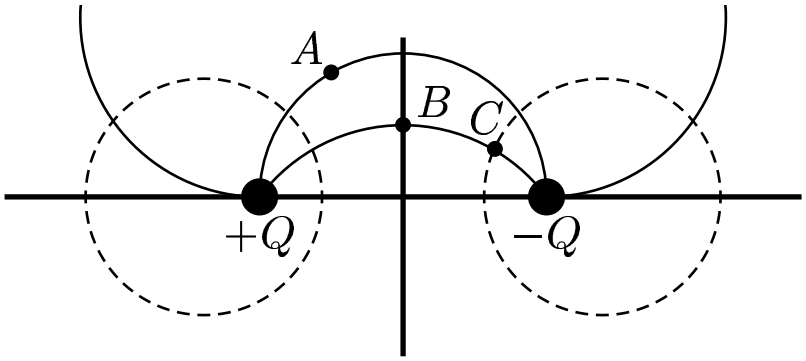
The field pattern and a pair of equipotential curves of a dipole are shown in the sketch.



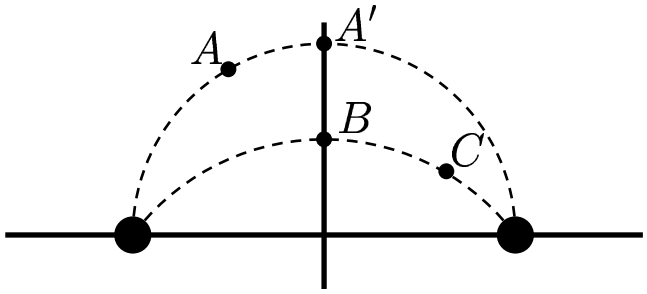
Compare potentials at A, B and C.

A) $V_A > V_B$ and $V_B > V_C$.

B) $V_A > V_B$ and $V_B = V_C$.

C) $V_A < V_B$ and $V_B < V_C$.

D) $V_A < V_B$ and $V_B = V_C$.



By inspection on the sketch above,

$$V_A > V_{A'}\,,$$

$$V_{A'} = V_B = 0\,, \quad \text{and}$$

$$V_B > V_C\,.$$

Answer **A**.

25.04-02˙Potentials˙at˙Different˙Points˙Near˙a˙Dipole 2004-3-24