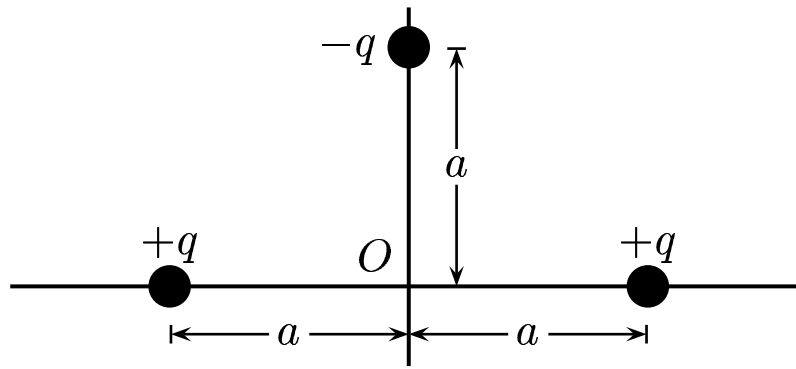


Three point charges are placed at equal distance from O .



Find the potential at the origin O .

- A) $V = -k \frac{q}{a}$
- B) $V = +3k \frac{q}{a}$
- C) $V = +k \frac{q}{a}$
- D) $V = -3k \frac{q}{a}$

At the origin O , we have

$$V = V_0 = \frac{kq}{a} + \frac{kq}{a} - \frac{kq}{a} = \frac{kq}{a}.$$

Answer **C**.

25.03-01 Potential 2004-3-24