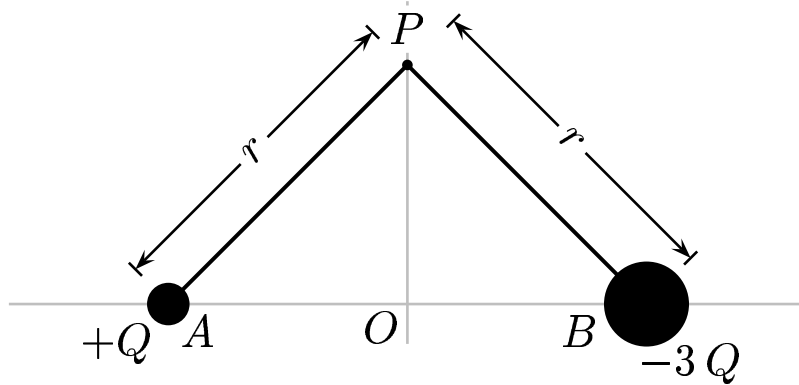


Two charges are located on the x -axis.



Find the potential V_P , at the point P on the y -axis.

- A) $V_P = + \frac{2 k Q}{r}$
- B) $V_P = - \frac{2 k Q}{r}$
- C) $V_P = - \frac{4 k Q}{r}$
- D) $V_P = + \frac{4 k Q}{r}$

$$V_P = \frac{k Q_1}{r} + \frac{k Q_2}{r} = \frac{k Q}{r} - \frac{3 k Q}{r} = - \frac{2 k Q}{r} .$$

Answer **B**.