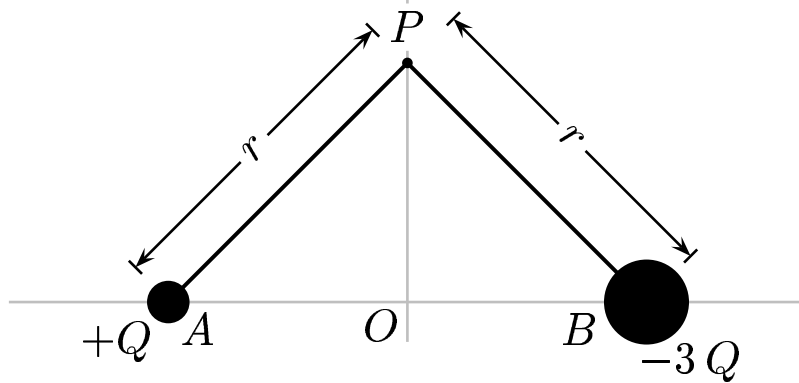


Two charges are located on the  $x$ -axis.



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)  $V_P = + \frac{4 k Q}{r}$

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

Answer **B**.