

Electric potential

Worksheet

- 1- Calculate the electric potential due to a point charge [$q=3\mu\text{C}$] at the points [A_1 at $r_1=0.25\text{ m}$] [A_2 at $r_2 = 0.045\text{m}$]

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- 2- As shown in the front figure, the two charges $q_1 = 2\text{ }\mu\text{C}$ and $q_2 = -3\text{ }\mu\text{C}$.

The point A at 4.6 m from the (+) charge **A●**
And 6 m apart from the (-) charge.
Calculate the total potential at the point A.



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- 3- As shown in figure, three identical charges and they are separated by distances [$a = 0.3\text{ m}$, $\theta = 60^\circ$]
If the potential at the head of the triangle is 20V,
Calculate the magnitude of the charges [q_1, q_2 , and q_3]

