

Special Problem 4-6.2

Consider the **dipole** shown below. Two point charges lie on the **x**-axis, each a distance of 0.01 m from origin.

Determine the electric **potential difference** V_{ab} between the point denoted by $\vec{r}_a = 4 \hat{a}_x + 3 \hat{a}_z$ and the point denoted by $\vec{r}_b = -3 \hat{a}_x + 4 \hat{a}_y$.

