## Answer on question \#62231, Physics / Other

Question two charges each $2 \mathrm{uC}, 3 \mathrm{uC}$ located at point $\mathrm{A}(2,1,2)$ and $\mathrm{B}($ $3,2,5)$ specify the coulomb force on charge in B!

Solution Square of distance between points is

$$
d^{2}=(3-2)^{2}+(2-1)^{2}+(5-2)^{2}=11
$$

So, the force is

$$
F=k \frac{q_{1} q_{2}}{d^{2}}=9 \cdot 10^{9} \frac{2 \cdot 10^{-6} \cdot 3 \cdot 10^{-6}}{11} \approx 4.9 \cdot 10^{-3} \mathrm{~N}
$$

