## Answer on question #62231, Physics / Other

 ${\bf Question}$   $~{\rm two}~{\rm charges}~{\rm each}~2uC$  , 3uC located at point A ( 2,1,2 ) and 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

$$F = k \frac{q_1 q_2}{d^2} = 9 \cdot 10^9 \frac{2 \cdot 10^{-6} \cdot 3 \cdot 10^{-6}}{11} \approx 4.9 \cdot 10^{-3} N$$