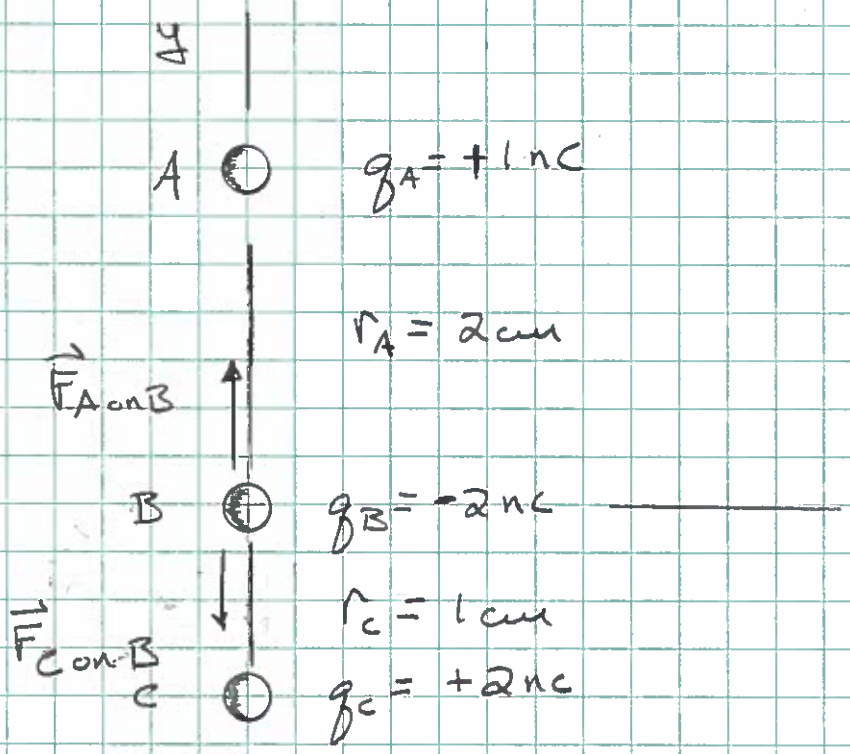

Magnitudes: $|\vec{F}_{AB}| = \dfrac{K|q_A||q_B|}{r_A^2} = 4.495\times10^{-5}\,N$

$|\vec{F}_{CB}| = \dfrac{K|q_B||q_C|}{r_C^2} = 3.596\times10^{-4}\,N$

Now:

$\vec{F}_{AB} = 4.495\times10^{-5}\,\hat{j}\,N$

$\vec{F}_{CB} = -3.596\times10^{-4}\,\hat{j}\,N$

So $\vec{F}_{NET} = \vec{F}_{AB} + \vec{F}_{CB} = -3.146\times10^{-4}\,\hat{j}\,N$

and, $|\vec{F}_{NET}| = 3.146\times10^{-4}\,N$