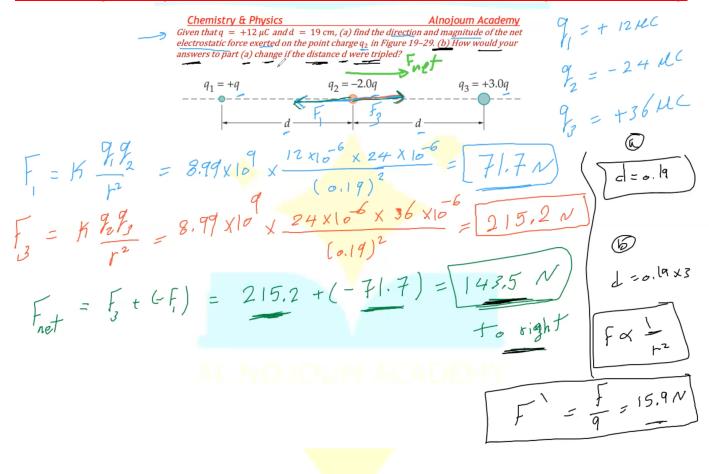
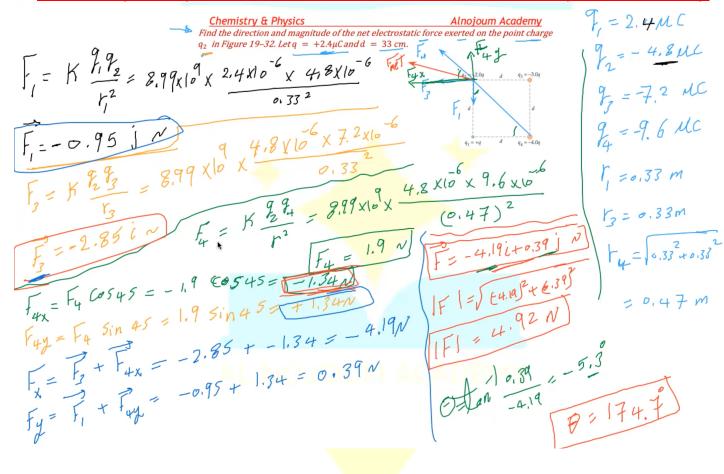


## AL NOJOUM ACADEMY



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## <u>H.W</u>

- 1. The attractive electrostatic force between the point charges  $+844 \times 10^{-6}$ C and Q has a magnitude of 0.975 N when the separation between the charges is 1.31 m. Find the sign and magnitude of the charge Q.
- 2. When two identical ions are separated by a distance of  $62 \times 10^{-10}$  m, the electrostatic force each exerts on the other is  $54 \times 10^{-9}$  N. How many electrons are missing from each ion?

(في هذه المسالة نقوم بحساب الشحنة Q عن طريق قانون كولوم ثم نستخدم القانون  $Q = \frac{Q}{e}$  حيث . N عدد الالكترونات ، Q شحنة الالكترون  $Q = 10 \times 10^{-19}$  و Q الشحنة )

