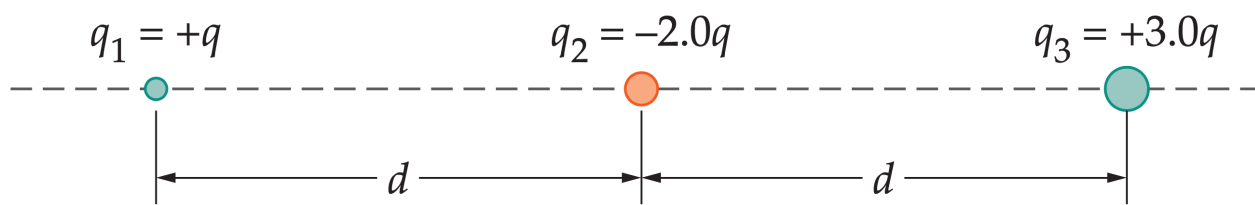


At what separation is the electrostatic force between a $+11.2\ \mu\text{C}$ point charge and a $+29.1\ \mu\text{C}$ point charge equal in magnitude to $1.57\ \text{N}$?

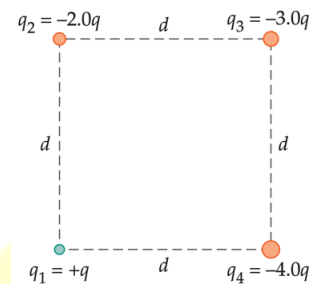


Given that $q = +12 \mu\text{C}$ and $d = 19 \text{ cm}$, (a) find the direction and magnitude of the net electrostatic force exerted on the point charge q_2 in Figure 19-29. (b) How would your answers to part (a) change if the distance d were tripled?



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Find the direction and magnitude of the net electrostatic force exerted on the point charge q_2 in Figure 19-32. Let $q = +2.4\mu\text{C}$ and $d = 33\text{ cm}$.



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