

## Coulomb's law with multiple charges

Three charges are located on the same line. Charge 1 is located in the middle and has a magnitude of 20.0  $\mu$ C. Charge 2 is at 30 cm on the right and has a value of 10.0  $\mu$ C. Charge 3 is at 20 cm to the left of charge 1 and has a value of 15.0  $\mu$ C. What is the resulting force on charge 1?

