

# Force Electric Three Charges

Step 1: Draw in the three charges on your number line below. Label the charges with their number ( $q_1$ ,  $q_2$  or  $q_3$ ), their sign (+ or -), and the number of nC for each. Make sure you place them at the proper location



Step 2: Find the force ( $F_{12}$ ) electric between charges  $q_1$  and  $q_2$ . Also tell whether or not the force is attracting them together or repelling them apart. Show your work neatly below

Step 3: Find the force ( $F_{13}$ ) electric between charges  $q_1$  and  $q_3$ . Also tell whether or not the force is attracting them together or repelling them apart. Show your work neatly below

Step 4: Find the force ( $F_{23}$ ) electric between charges  $q_2$  and  $q_3$ . Also tell whether or not the force is attracting them together or repelling them apart. Show your work neatly below

Step 5: Enter your answers into the program to see if you did everything correctly