PHYS1120
Summer 2025

1. **Three charges are arranged in a right triangle as shown to the right.** q_1 **has charge** 5×10^{-6} **C,** q_2 **has charge** -7×10^{-6} **C, and** q_3 **has charge** 10×10^{-6} **C. Calculate the net force (magnitude and direction) on** q_3**.**

q_1

+

5 m

4 m

q_3

−

+

q_2

3 m