



## EXIT TICKET

05:00



1. Two-point charges are fixed on the x-axis:  $q_1 = 6.0 \mu\text{C}$  is located at the origin,  $O$ , with  $x_1 = 0.0 \text{ cm}$ , and  $q_2 = -3.0 \mu\text{C}$  is located at point  $A$ , with  $x_2 = 8.0 \text{ cm}$ . Where should a third charge,  $q_3$ , be placed on the x-axis so that the total electrostatic force acting on it is zero?

- a) 19 cm
- b) 27 cm
- c) 0.0 cm
- d) 8.0 cm
- e) -19 cm

2. The force between a charge of  $25 \mu\text{C}$  and a charge of  $-10 \mu\text{C}$  is  $8.0 \text{ N}$ . What is the separation between the two charges?

- a) 0.28 m
- b) 0.53 m
- c) 0.45 m
- d) 0.15 m

3. Two-point charges exert a  $5.00 \text{ N}$  force on each other. What will the force become if the distance between them is increased by a factor of three?

- a) 0.556 N
- b) 0.897 N
- c) 0.4567 N
- d) 0.3456 N

*Thank You...*  **LIVEWORKSHEETS**