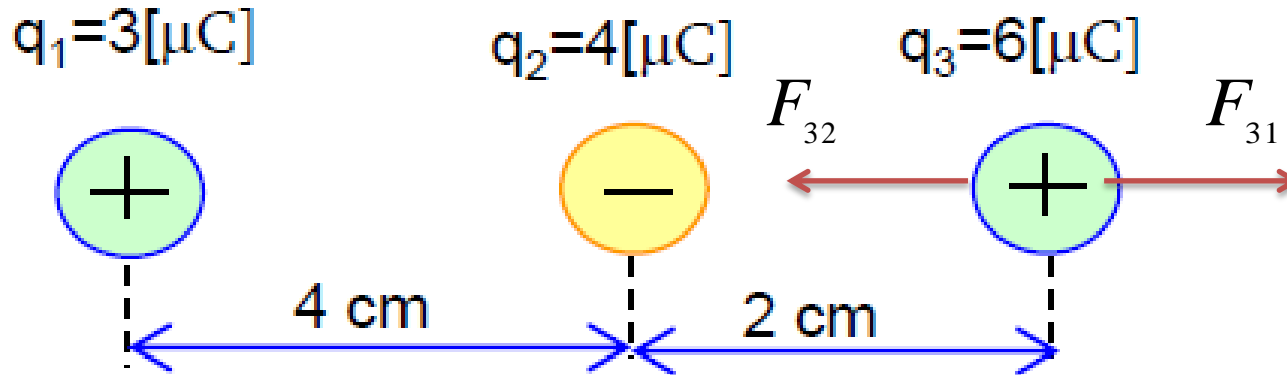


## 7. Hallar la fuerza resultante en "q3".



- A)  $-490i$  [N]
- B)  $-495i$  [N]
- C)  $500i$  [N]
- D)  $505i$  [N]
- E) N.A.

$$F_{32} = \frac{Kq_3q_2}{d_{23}^2} \quad F_{32} = \frac{9 \cdot 10^9 \cdot 6 \cdot 10^{-6} \cdot 4 \cdot 10^{-6}}{(2 \cdot 10^{-2})^2} \quad F_{32} = 540 \text{ [N]}$$

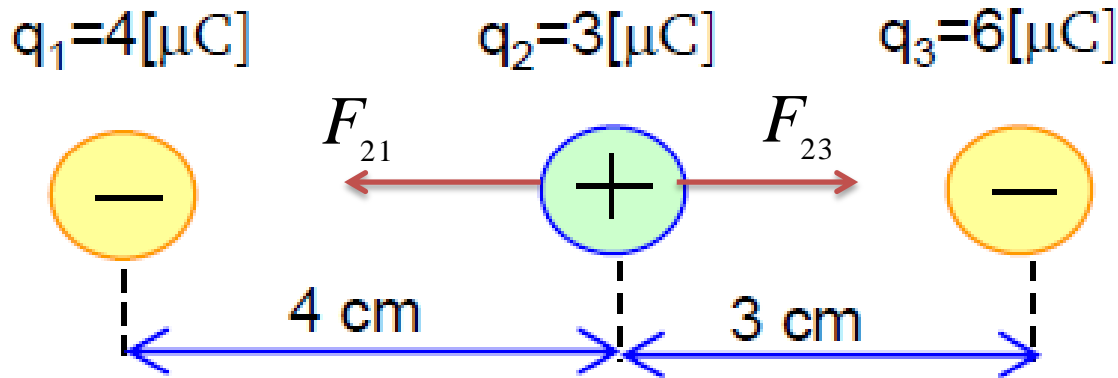
$$F_{31} = \frac{Kq_3q_1}{d_{31}^2} \quad F_{31} = \frac{9 \cdot 10^9 \cdot 6 \cdot 10^{-6} \cdot 3 \cdot 10^{-6}}{(6 \cdot 10^{-2})^2} \quad F_{31} = 45 \text{ [N]}$$

$$\vec{F}_R = 45i - 540i$$

$$\vec{F}_R = -495i \text{ [N]}$$

8. Halla la fuerza resultante en "q2".

- A) 115i [N]
- B) -115i [N]
- C) 113i [N]
- D) -113i [N]
- E) N.A.



$$F_{21} = \frac{Kq_2q_1}{d_{21}^2}$$

$$F_{21} = \frac{9 \cdot 10^9 \cdot 3 \cdot 10^{-6} \cdot 4 \cdot 10^{-6}}{(4 \cdot 10^{-2})^2}$$

$$F_{21} = 67,5 [N]$$

$$F_{23} = \frac{Kq_2q_3}{d_{23}^2}$$

$$F_{23} = \frac{9 \cdot 10^9 \cdot 3 \cdot 10^{-6} \cdot 6 \cdot 10^{-6}}{(3 \cdot 10^{-2})^2}$$

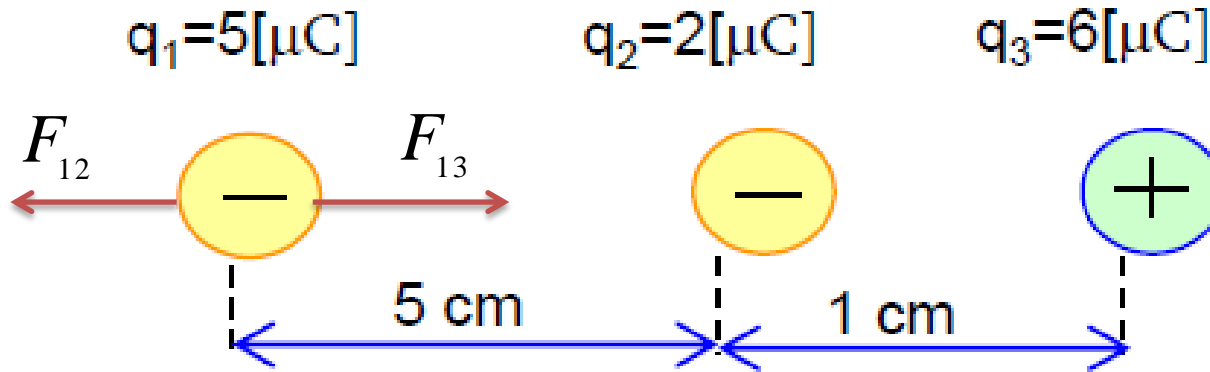
$$F_{23} = 18 [N]$$

$$\vec{F}_R = 18i - 67,5i$$

$$\vec{F}_R = -49,5i [N]$$

9. Halla la fuerza resultante en "q1".

- A) 37i [N]
- B) 38i [N]
- C) 39i [N]
- D) 40i [N]
- E) N.A.



$$F_{12} = \frac{Kq_1q_2}{d_{12}^2}$$

$$F_{12} = \frac{9 \cdot 10^9 \cdot 5 \cdot 10^{-6} \cdot 2 \cdot 10^{-6}}{(5 \cdot 10^{-2})^2}$$

$$F_{12} = 36 [N]$$

$$F_{13} = \frac{Kq_1q_3}{d_{13}^2}$$

$$F_{13} = \frac{9 \cdot 10^9 \cdot 5 \cdot 10^{-6} \cdot 6 \cdot 10^{-6}}{(6 \cdot 10^{-2})^2}$$

$$F_{13} = 75 [N]$$

$$\vec{F}_R = 75i - 36i$$

$$\vec{F}_R = 39i [N]$$

A green, wavy-edged graphic with a yellow border and a drop shadow. The word "FIN" is written in red, bold, sans-serif capital letters in the center.

**FIN**