

Example

Three charges – Adding Vectors $F_{+7} + F_{-7}$

- Calculate components of vectors F_{+7} and F_{-7} :

$$F_{+7,x} = F_{+7} \cos \theta = 5 \times 10^{-3} N \frac{3}{5}$$

$$F_{+7,y} = F_{+7} \sin \theta = 5 \times 10^{-3} N \frac{4}{5}$$

$$F_{-7,x} = F_{-7} \cos \theta = 5 \times 10^{-3} N \frac{3}{5}$$

$$F_{-7,y} = -F_{-7} \sin \theta = -5 \times 10^{-3} N \frac{4}{5}$$

