

## Quiz 1

Consider the three point charges shown below. What is the direction of the net force on  $Q$ ?

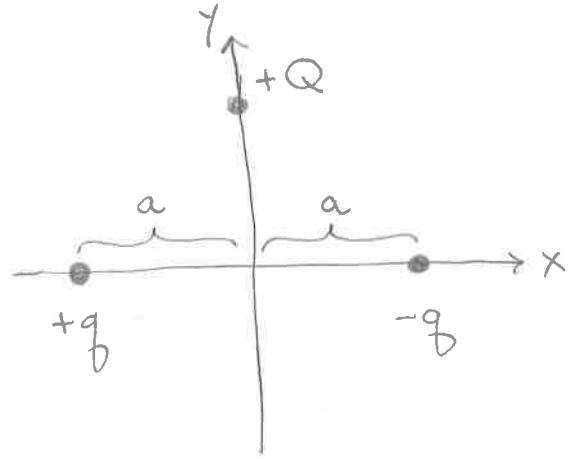
(a)  $+\hat{i}_x$

(b)  $-\hat{i}_x$

(c)  $+\hat{i}_y$

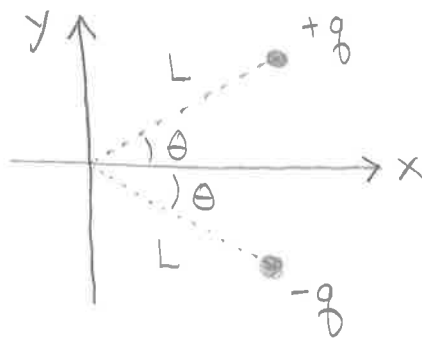
(d)  $-\hat{i}_y$

(e) None of the above



## Quiz 1

Consider the two charges  $+q$  and  $-q$  shown below. Both  $L$  and  $\theta$  are known. What is the electric force on charge  $-q$  due to  $+q$ ?



(a)  $\frac{1}{4\pi\epsilon_0} \frac{q^2}{L^2 \sin^2\theta} \hat{u}_y$

(b)  $\frac{-1}{4\pi\epsilon_0} \frac{q^2}{L^2 \sin^2\theta} \hat{u}_y$

(c)  $\frac{1}{4\pi\epsilon_0} \frac{q^2}{4L^2 \sin^2\theta} \hat{u}_y$

(d)  $\frac{-1}{4\pi\epsilon_0} \frac{q^2}{4L^2 \sin^2\theta} \hat{u}_y$

(e) None of above