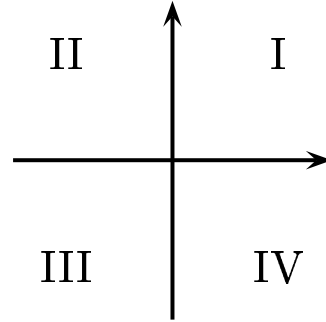
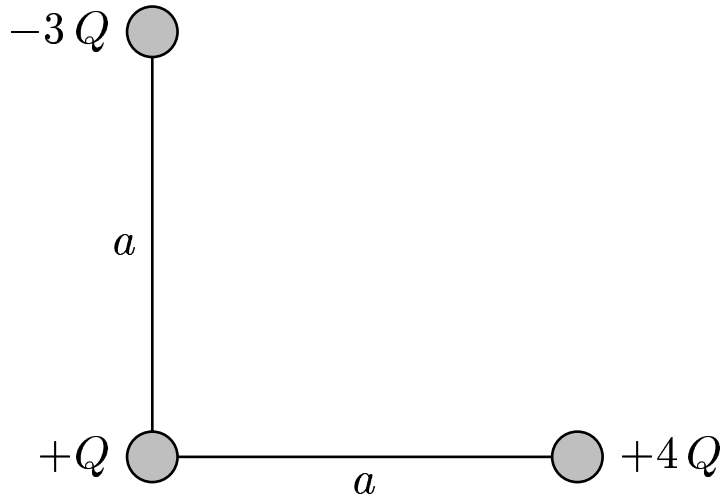


Q is at the origin, $+4Q$ is on the positive x -axis a distance a from the origin, and $-3Q$ is on the positive y -axis a distance a from the origin.



Determine which quadrant contains the electric force on the charge $+Q$ at the bottom left-hand corner (at the origin).

A) I

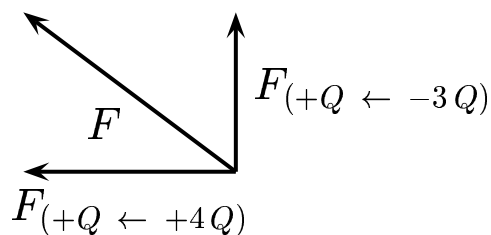
B) II

C) III

D) IV

Coulomb's law is $\vec{F}_{AB} = k \frac{Q_A Q_B}{r^2} \hat{r}_{AB}$, which tells us that unlike charges

attract and like charges repel.



Answer **B**.

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