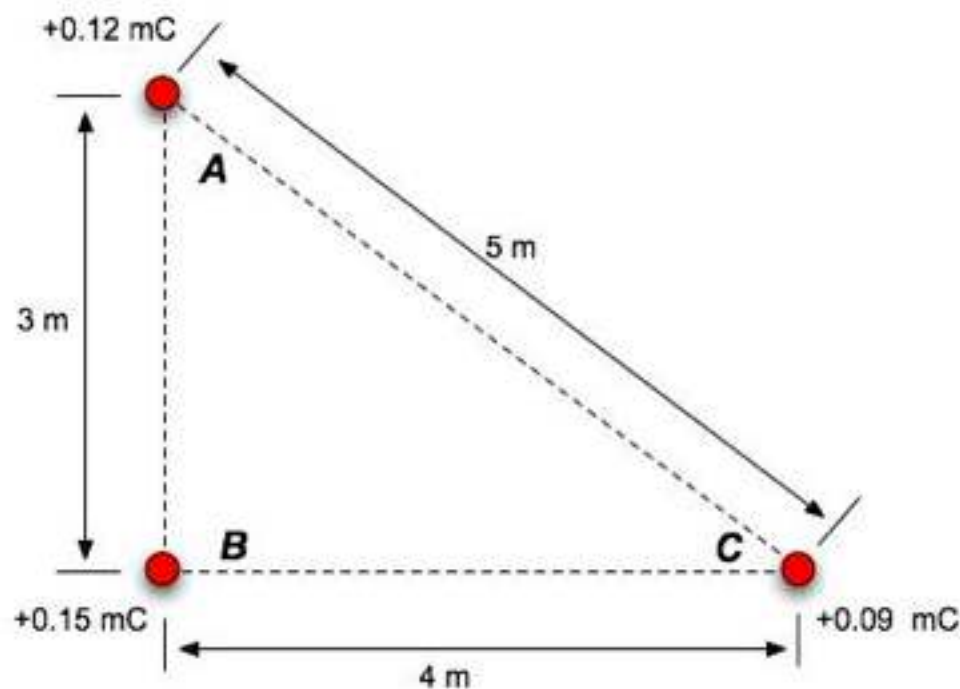




The figure shows three positive point charges. If we made the change stated in red, how would it affect the electric force vector felt by charge B?

- A. It will only change the direction.
- B. It will only increase the magnitude.
- C. It will only decrease the magnitude.
- D. It will increase the magnitude and change its direction.
- E. It will decrease the and change its direction.
- F. It will not affect the vector.

**Double the charge on B.**

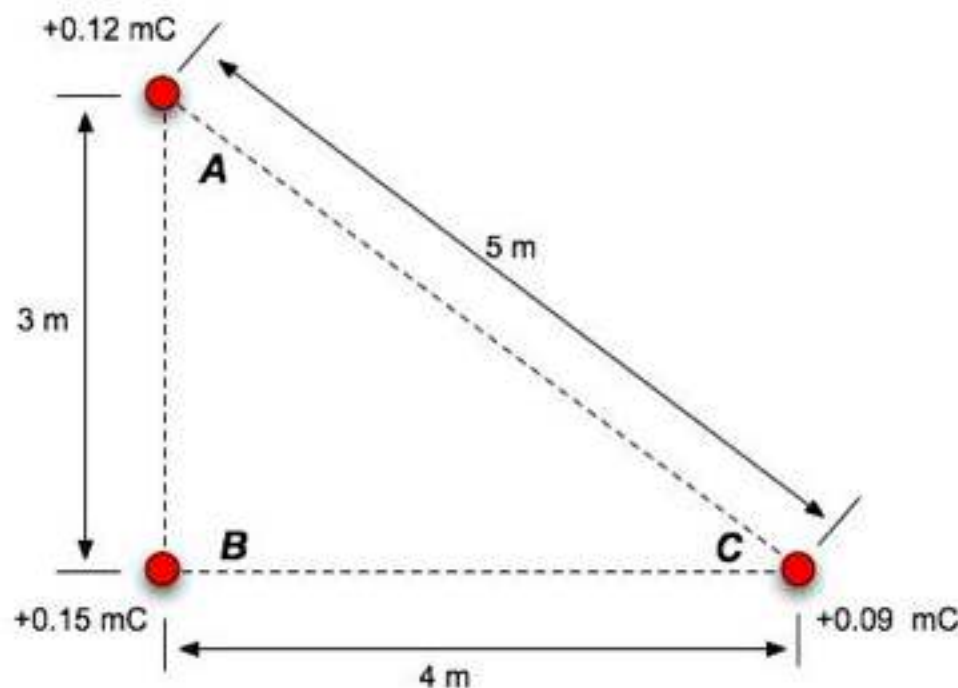




The figure shows three positive point charges. If we made the change stated in red, how would it affect the electric force vector felt by charge B?

- A. It will only change the direction.
- B. It will only increase the magnitude.
- C. It will only decrease the magnitude.
- D. It will increase the magnitude and change its direction.
- E. It will decrease the and change its direction.
- F. It will not affect the vector.

**Change the sign of the charge on B.**

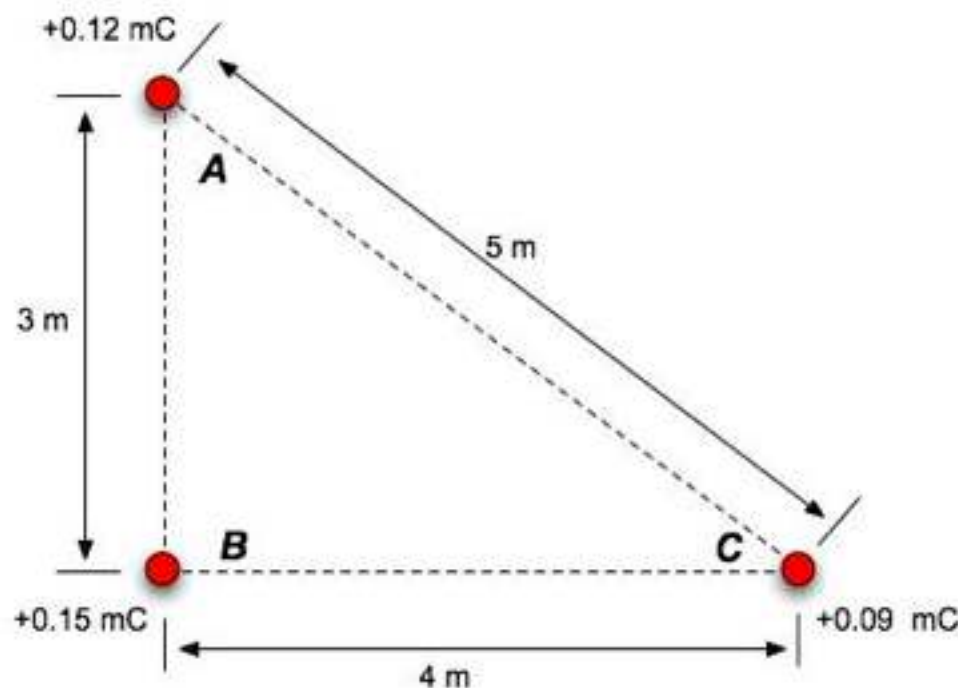




The figure shows three positive point charges. If we made the change stated in red, how would it affect the electric force vector felt by charge B?

- A. It will only change the direction.
- B. It will only increase the magnitude.
- C. It will only decrease the magnitude.
- D. It will increase the magnitude and change its direction.
- E. It will decrease the and change its direction.
- F. It will not affect the vector.

**Double the charges on A & C.**

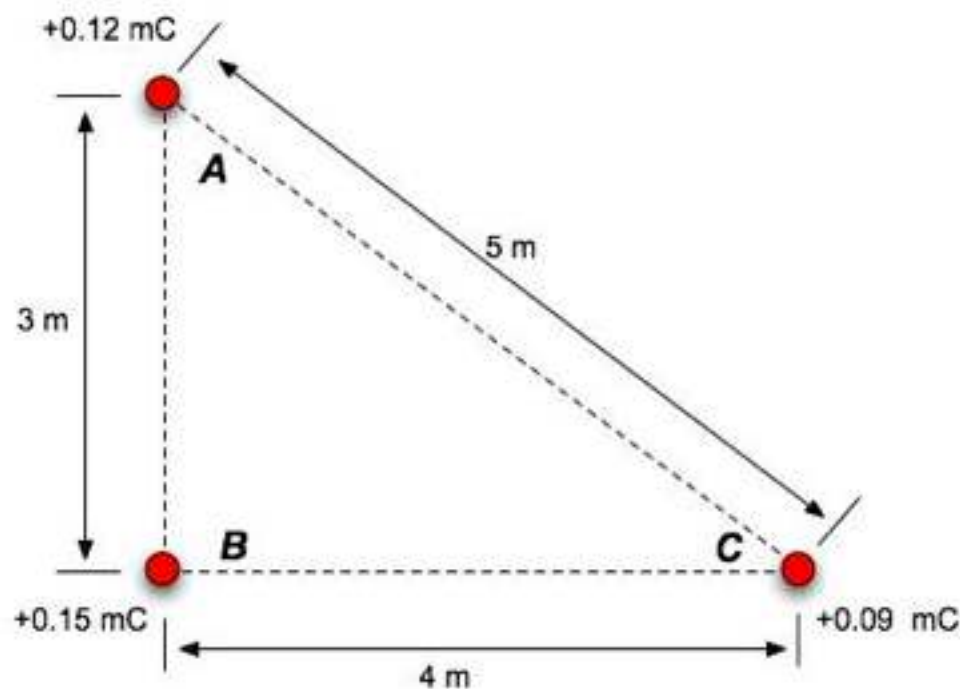




The figure shows three positive point charges. If we made the change stated in red, how would it affect the electric force vector felt by charge B?

- A. It will only change the direction.
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- C. It will only decrease the magnitude.
- D. It will increase the magnitude and change its direction.
- E. It will decrease the and change its direction.
- F. It will not affect the vector.

**Double the charge on A.**



Below are shown four situations in which charges have been placed. Each positive and negative charges has the same magnitude. If in each situation, we put a small positive test charge at the indicated positions, rank the magnitude of the force that the test charge would feel.

