

- 2. Find the magnitude of the force on charge A due to charge C,  $F_c$ .
- 3. What is the direction of  $F_c$ ?
- 4. What is the magnitude of the force on charge A due to charge B,  $F_B$ ?
- 5. What is the direction of  $F_B$ ?

6. Find the x-components of  $F_B$  and  $F_C$  and find the total force in the x-direction,  $F_{\rm x}.$ 

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7. Find the y-components of  $F_B$  and  $F_c$  and find the total force in the y-direction,  $F_y$ .



8. Use the Pythagorean theorem to find the magnitude of the Force acting on A.

9. Find the direction of the total force acting on A. Include a sketch of the vectors.