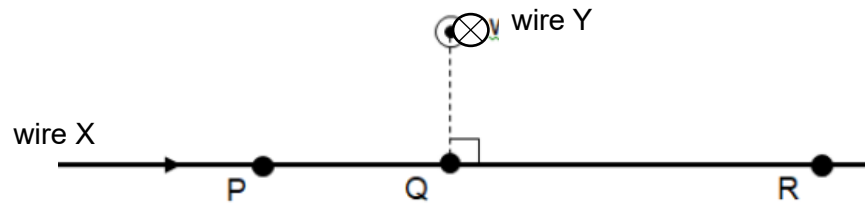


- 25 Two long straight current-carrying wires, X and Y, are placed perpendicular to each other as shown in the diagram. Current flows from left to right in wire X and into the page in wire Y. P, Q and R are three points on wire X.



Which of the following statements is true?

- A** The magnetic force at point P acts in the opposite direction to that at point R.
- B** The magnitude of the magnetic force at point R is the smallest among all three points.
- C** The magnitude of the magnetic force at point Q is the largest among all three points.
- D** There is no magnetic force acting on wire X at all three points, P, Q and R, as the two wires are placed perpendicular to each other.