

- 24** Three parallel wires, P, Q and R, carry equal currents in the directions shown. Q is equidistant from P and R. The currents in P and R are into the page. The current in Q is out of the page.



P



Q



R

How do the resultant magnetic forces on the three wires compare?

- A All three wires experience zero resultant force.
- B All three wires experience equal non-zero resultant forces.
- C P and R experience equal resultant forces in the same direction. Q experiences zero resultant force.
- D P and R experience equal resultant forces in opposite directions. Q experiences zero resultant force.

