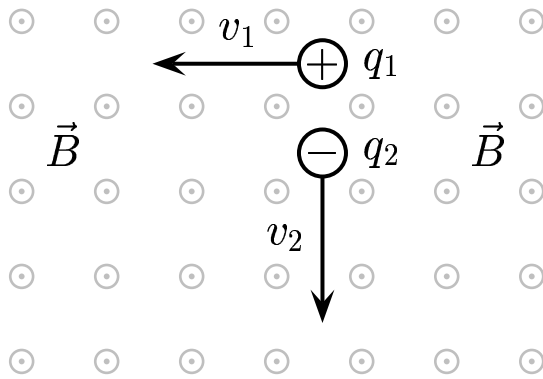


\vec{B} field is coming out of the paper. q_1 is a positive charge and q_2 is a negative charge.



Determine the direction of the magnetic force for each case.

Case I: Force on positive charge q_1 , $q_1 > 0$.

Case II: Force on negative charge q_2 , $q_2 < 0$.

- A) Case I: \uparrow and Case II: \rightarrow .
- B) Case I: \downarrow and Case II: \rightarrow .
- C) Case I: \uparrow and Case II: \leftarrow .
- D) Case I: \downarrow and Case II: \leftarrow .

Use the right-hand rule, remembering to invert the direction for negative charges.

Answer A.

29.04-01 Magnetic Force on Moving Charge 2006-10-10