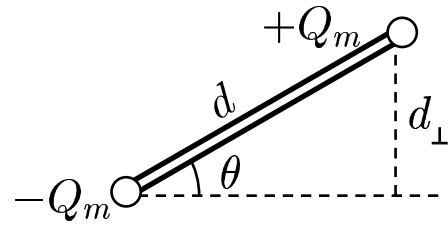
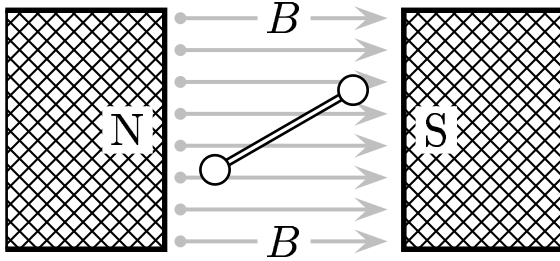


Consider a magnetic dipole placed in a uniform magnetic field \vec{B} , where Q_m is a magnetic monopole.

The force on a magnetic monopole Q_m in a magnetic field \vec{B} is $F = Q_m B$ (similar to the electric field where $F = Q_e E$).



Determine the net force F on the magnetic dipole.

- A) $F = 2 Q_m B$
- B) $F = Q_m B$
- C) $F = 0$
- D) $F = 3 Q_m B$
- E) $F = 4 Q_m B$

Forces on $+Q_m$ and $-Q_m$ are equal in magnitude and opposite in sign.
 $F_{net} = F_+ + F_- = 0.$

Answer C.

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