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1. Draw the resulting magnetic fields

The image shows four hand-drawn diagrams illustrating magnetic fields:

- Top Left:** A circular current loop with a dot in the center, indicating current coming out of the page. Red concentric circles with arrows show the magnetic field lines circulating counter-clockwise.
- Top Right:** A horizontal bar magnet with 'N' on the left and 'S' on the right. Red field lines emerge from the North pole, curve around the magnet, and enter the South pole.
- Bottom Left:** A horseshoe magnet with 'N' at the top and 'S' at the bottom. Red field lines emerge from the North pole, curve around the magnet, and enter the South pole.
- Bottom Right:** A solenoid (a coil of wire) with a battery connected to it. Blue arrows on the wire indicate the direction of current flow. Red field lines emerge from the right side of the solenoid, curve around, and enter the left side.

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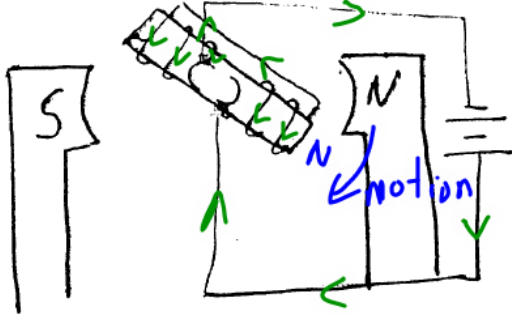
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2. Draw the direction of the current.

3. Draw the direction of the force on the wire


deformed horseshoe magnet

4. In what direction will the motor rotate?

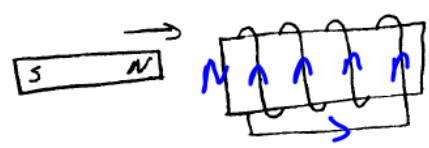


5. Determine the direction of the induced current.

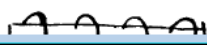
$F \rightarrow$



$\leftarrow F$



6. Determine the poles that induce the following current



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6. Determine the poles that induce the following current

7. Determine the direction of motion of the magnet.

8. Determine the direction of the current in a) & motion in b)

Attachments

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