

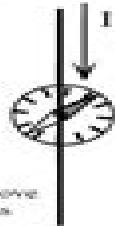
E&M Unit 4 - Magnetism: Worksheet 1 Key

Part 1

For questions 1-4, draw in the needle of the compass (in large empty circle) showing the deflection that the needle will experience. North is at the top of the page. If there is no deflection write none.

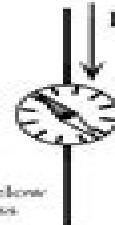
Note: The symbol \odot represents a wire coming out of the paper and \oslash represents a wire going into the paper.

1.



wire above
compass

2.



wire below
compass

3.



None, any
deflection is
downward.

4.



For questions 5-8, draw arrows to represent the strength and direction of the magnetic field at the points indicated by the arrows on the wires.

5.



The field near these two wires is the sum of the fields from the two wires. At point A, the field is directed out of the page. At point B, the field is directed into the page. At point C, the field is directed out of the page. At point D, the field is directed into the page.



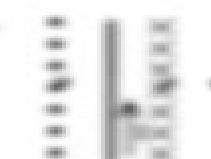
A

B

C

D

The field near these two wires is the sum of the fields from the two wires. At point A, the field is directed out of the page. At point B, the field is directed into the page. At point C, the field is directed out of the page. At point D, the field is directed into the page.



There is least
near the point
B. At point A,
the field is
directed out
of the page.
At point C,
the field is
directed into
the page.



There is least
near the point
B. At point A,
the field is
directed out
of the page.
At point C,
the field is
directed into
the page.

Concept Development Physics 36 Magnetism Answers

Scott C. Dulebohn

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