

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 \otimes represents a wire going into the paper.

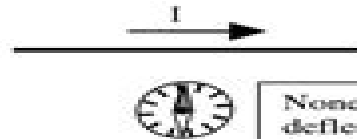
1.



2.



3.



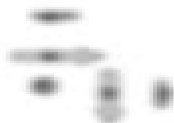
None, any deflection is downward.

4.



For questions 5 - 8, sketch vectors to represent the strength and direction of the magnetic field at the designated places due to the current in the wires.

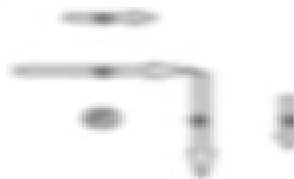
5.



6.



7.



The magnetic field is a field of force that surrounds a wire carrying a current. It is a vector field. The direction of the field is given by the right-hand rule. If the thumb points in the direction of the current, the fingers curl in the direction of the field.

8.



There is a field in the region of the wire. It is a vector field. The direction of the field is given by the right-hand rule. If the thumb points in the direction of the current, the fingers curl in the direction of the field.

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Concept Development Physics 36 Magnetism Answers

Scott C. Dulebohn



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