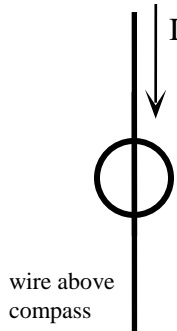


Magnetism: Worksheet 1

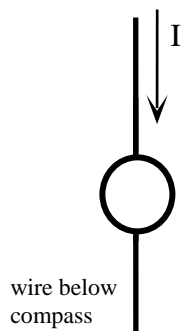
Magnetism, as you recall from physics class, is a powerful force that causes certain items to be attracted to refrigerators.—Dave Barry

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.

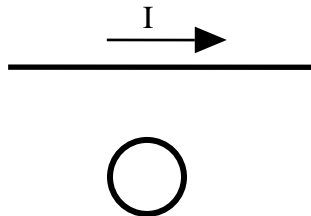
1.



2.



3.

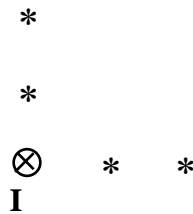


4.

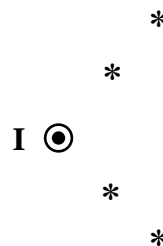


For questions 5 – 8, sketch vectors to represent the strength and direction of the magnetic field at the designated places due to the current in the wire(s).

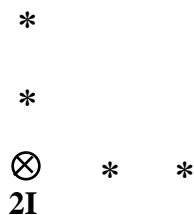
5.



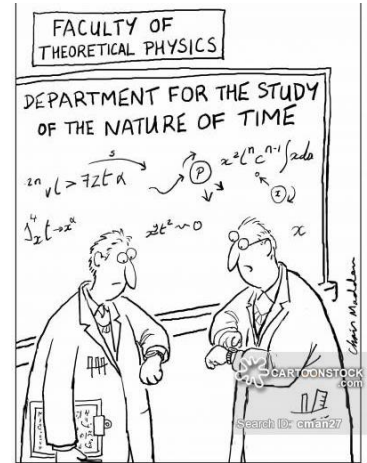
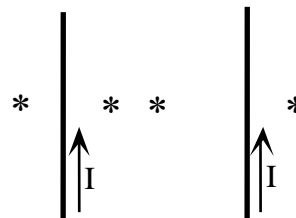
6.



7.

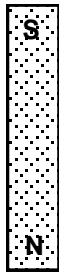


8.



For each diagram representing a magnet or current-carrying conductor below, draw in the associated magnetic field lines.

9.



10.



11.

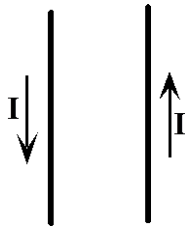


current carrying wire
perpendicular to the page

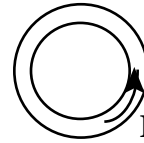
12.



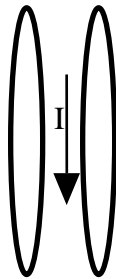
13.



14.



15.



two loops – arrow shows
current in near portion of
loop