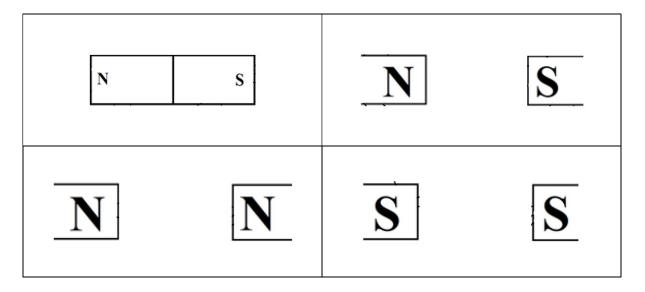
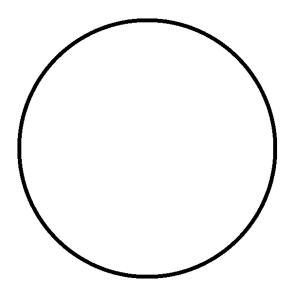
	Name:
	Class:
	Due Date:
	46 – Magnets, Magnetic Field Lines, and Solenoids
Answer the following questions. The solutions to this worksheet can be found on the YouTube channel Go Physics Go.	
1.	C: List some differences between the electric force and the magnetic force.
2.	C: What are two situations in which magnetic fields are observed?
3.	C: List some metals which have magnetic properties.
4.	C: Define hard magnet. Define soft magnet.
5.	C: How can you demagnetize a magnet?
6.	C: Give some rules for drawing magnetic field lines.

7. C: Use a pencil and ruler! For each figure draw six magnetic field lines with arrows.



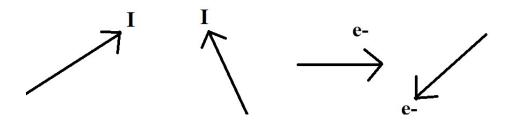
8. C: Draw and label the Earth's magnetic north pole (MN), magnetic south pole (MS), geographic north pole (GN), and geographic south pole (GS). Draw four magnetic field lines with arrows.



9. C: What are some differences between magnetic field lines and electric field lines?

- 10.C: What is a *magnetic monopole*? Where in the universe can we find a *magnetic monopole*?
- 11.C: Draw the symbols for an axis going into the page and out of the page.

12.C: Use a pencil! Draw magnetic field lines for each current carrying wire.



13.C: Use a pencil! Describe and draw a *solenoid*. Use the right hand rule to draw magnetic field lines and the poles.

14.C: State three ways we can we increase the magnetic field inside a solenoid.

15.C: Draw magnetic field lines in a circular current carrying loop.

