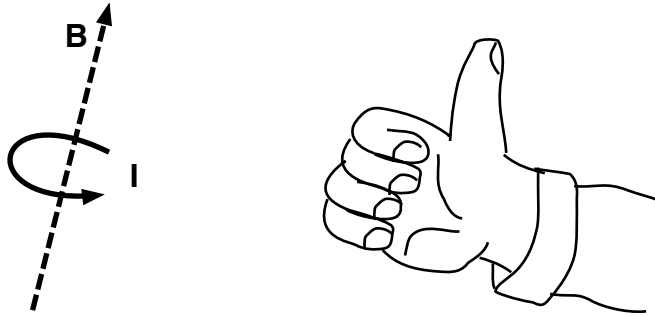


Magnetic Field Direction

Finding the Magnetic Field (B) around a Current (I)

Moving charges create magnetic fields around them. Hopefully you recall that when there is an electric current in a wire, there is a magnetic field that goes around the wire. The magnetic field created is circular and we define the direction with the following:



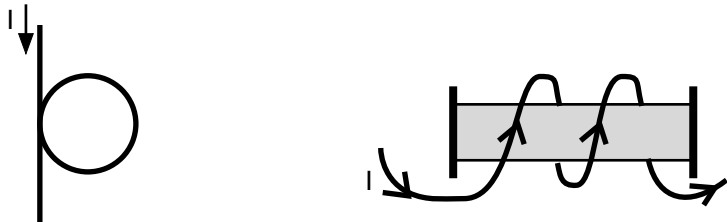
1. Sketch the magnetic field around a wire carrying a current out of the page (●) and into the page (×).



2. Sketch the magnetic field around the following wires:



3. Sketch the magnetic field around the coil and the solenoid below.



4. What happens to the strength of the magnetic field inside the little loop of current from #3?
5. Sketch the magnetic field around the bar magnet shown below. (Then label the N and S poles on the solenoid in #3.)

