

Physics 161 Quiz – Magnetic Fields and Force

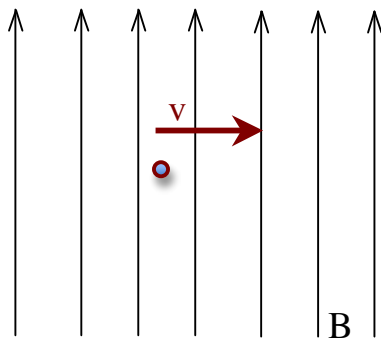
Name _____
Lab Time _____

1. [3 PTS] Draw the magnetic field produced by a current carrying wire.



2. [2 PTS] What is the magnitude of the resulting magnetic field, \vec{B} , 2 cm from the center of a wire carrying a 0.5 A current.

3. [3 PTS] Draw the direction of the force for the electron moving through the uniform \vec{B} below.



4. [2 PTS] What is the magnitude of the force? (define the symbols used)