Pre REC Week Nov 2 – Hand in to your TA at the beginning of recitation.

NAME: __________________________________________

**Direction of the Magnetic Field due to a Wire**

Hint: For directions, in addition to left, right, up and down, out of the page can be represented by the point of an arrow \( \bigcirc \), and into the page can be represented by the feathers of an arrow \( \otimes \).

![Figure 1 – one wire](image)

1. In figure 1, draw a vector representing the direction of the magnetic field at point A.
2. In figure 1, draw a vector representing the direction of the magnetic field at point B.

![Figure 2 – two wires](image)

3. In figure 2, draw a vector representing the direction of the magnetic field at point C. Show your work or explain in words how you determined how to draw the vector.

4. In figure 2, draw a vector representing the direction of the magnetic field at point D. Show your work or explain in words how you determined how to draw the vector.

5. In figure 2, draw a vector representing the direction of the magnetic field at point E. Show your work or explain in words how you determined how to draw the vector.