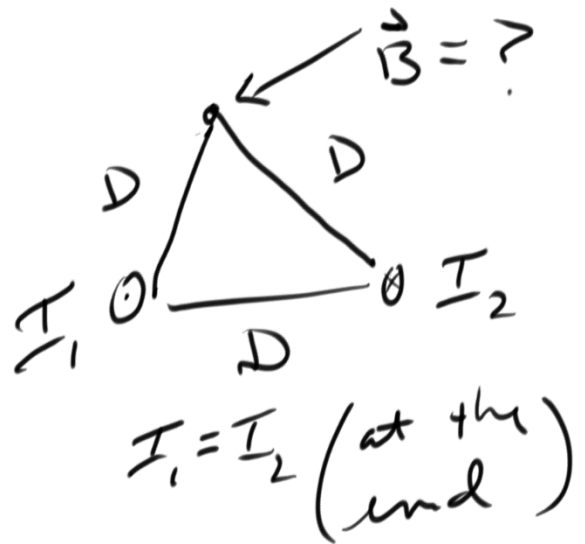
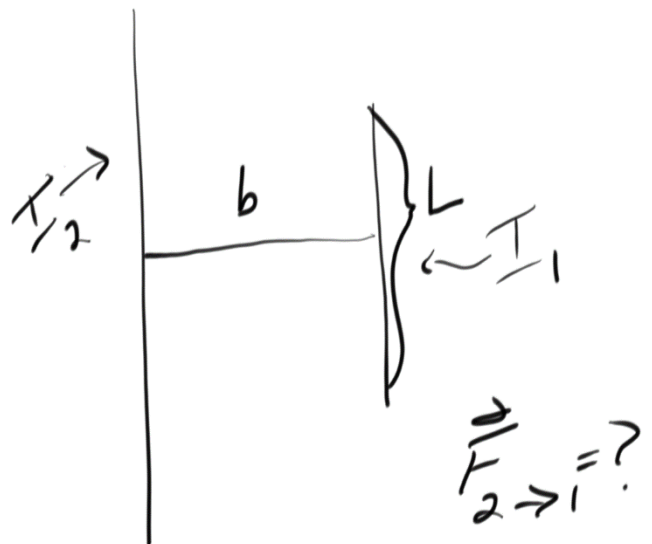


Physics 2B Quiz Set 6: Making magnetic fields

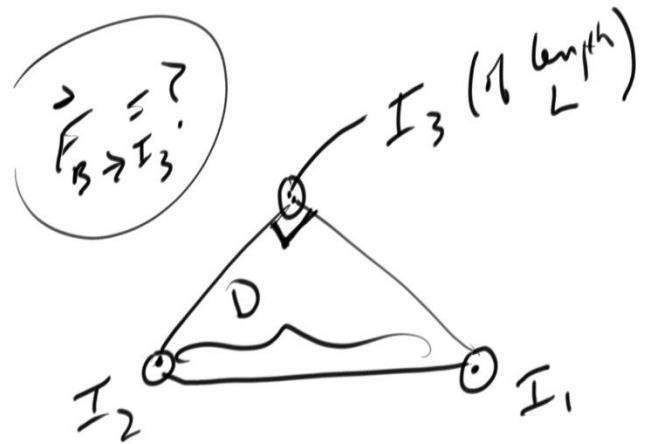
1. Find the magnetic field at the point indicated.



2. Find the force vector on a length  $L$  of current  $I_1$  from another infinite current,  $I_2$ .



3. Find the force vector from the two currents  $I_1$  and  $I_2$  on a length  $L$  of a third current,  $I_3$ . All the currents are parallel and  $I_1$  and  $I_2$  are infinite, and at the end, let  $I_1$  be equal to  $I_2$ .



4. For what value of current,  $I_2$ , will the length of wire,  $L$ , of mass,  $m$ , not move from its position. There is gravity in this problem.

