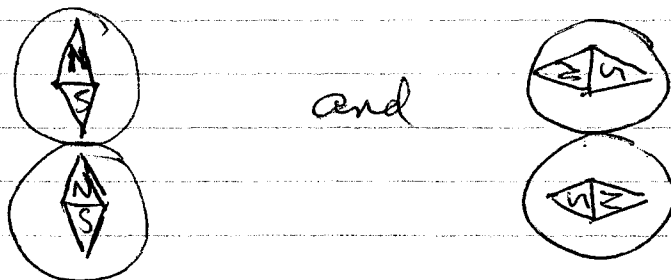
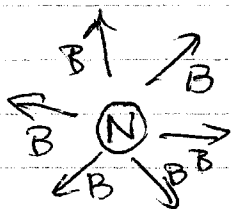


Phy 132 Homework X2

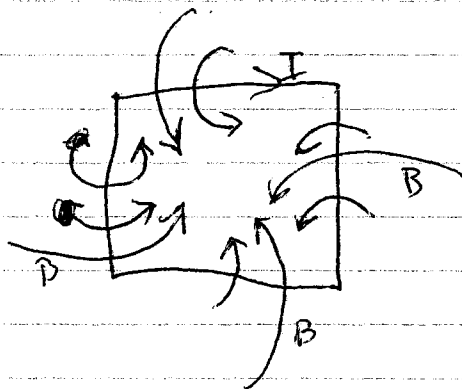
- 1) We want each compass to point in the direction of the field produced by the other compass. Two such configurations are



- 2) A monopole would have B point always away from it (assuming a north pole). Must check all directions - front/back - left/right - up/down

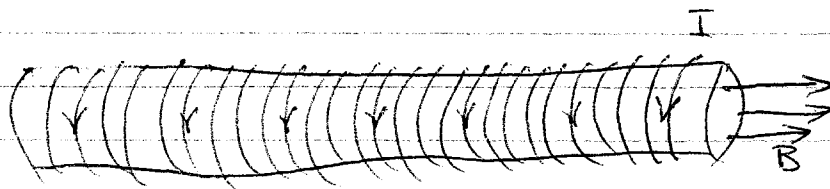


3)



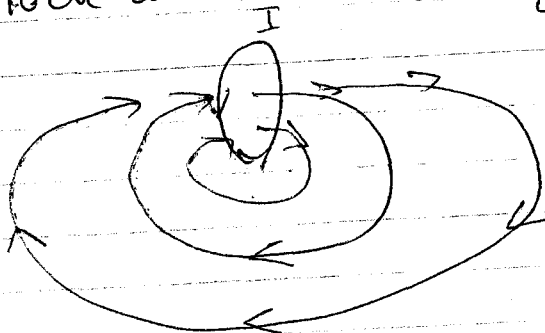
B goes into page through the center

4)



All loops produce B along axis inside

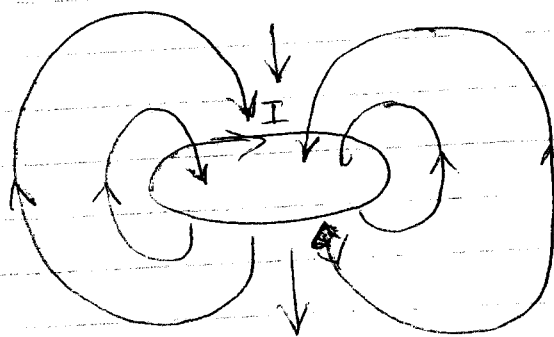
look at field of single loop



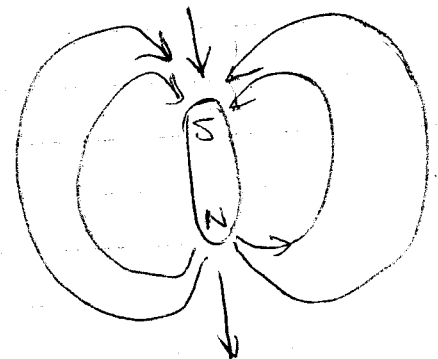
← on axis - all same direction

— off axis —
various directions —
tends to cancel out

5)



Looks like



Far from loop - field
lines same as for dipole