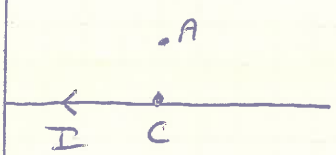
Practice Problems

a) 

Find magnitude and direction of B at Point A. The radius is D/2.

b) 

Find B at Point A, after wire loop is straightened but still has same current I.

c) Compare the B field strength for cases a) & b)

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q_1 • → v_1

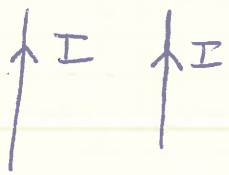
← • $q_2 = -2q_1$

$v_2 = 2v_1$

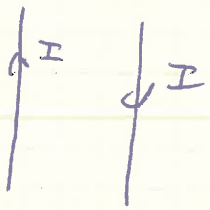
a) How many forces on #I?

b) B direction at #I?

c) F_B on #I?



where is B=0?



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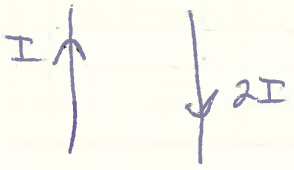
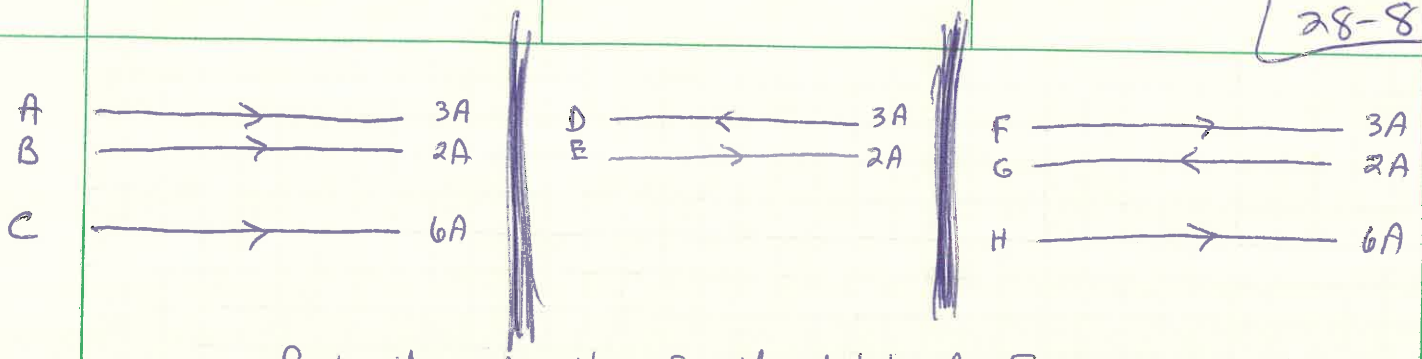
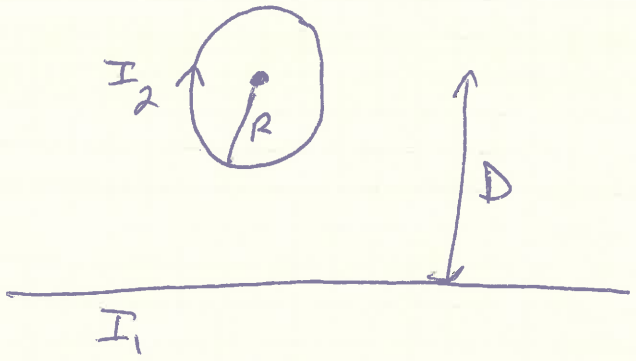




Rank the strength of the total B force on each wire.



What is magnitude and direction of I_1 if B at center of loop is zero?