PreAP: Due Tues., Apr 25 (Assigned Mon, Apr 17) Reg. Due Wed., Apr 26 (Assigned Mon., Apr 24)

## Magnetism 3



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- 13. A current carrying wire is coming out of the page (toward you), which way is B, clockwise or counterclockwise?14. A current carrying wire is looped clockwise in the plane of the paper. Is B up or down?
- 15. The force the charge feels is forward when B is down. Which way is the charge moving?
- 16. A moving charge in a uniform magnetic field travels how?
- 17. A 12 N force is felt by a 2  $\mu$ C charge going 3 x 10<sup>4</sup> m/s. How big is the magnetic field?
- 18. A 20 loop, 0.35 m<sup>2</sup> solenoid oriented at an angle of 20 degrees feels a magnetic field change from 10 T to 2.2 T in 3 seconds. How much emf is felt?