

W10D1

November 1, 2010

**WHAT CAN YOU DO WITH MAGNETIC
FIELD AND WHERE DOES IT COME FROM!**

THIS WEEK

- Mostly magnetism and effects on and from currents.
- There is a new WA posted and another may be added at any time.
- Quiz on Friday
- Next examination is looming! keep up with the work.

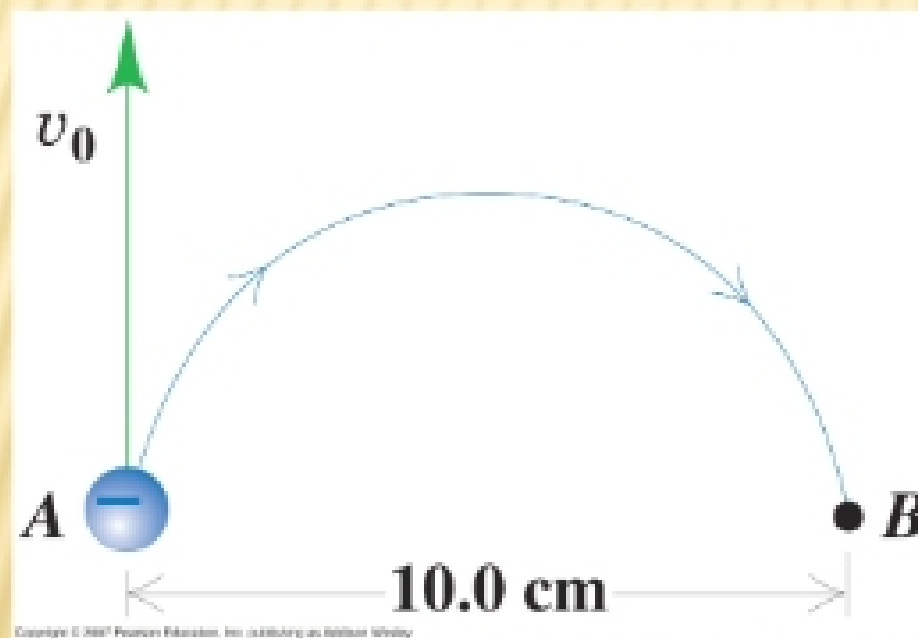
PROBLEM REDUX – REVIEW DIRECTION ISSUE.

An electron at point A in the figure has a speed v_0 of 1.4×10^6 m/s. Find

(a) the magnitude and direction of the magnetic field that will cause the electron to follow the semicircular path from A to B and

(b) the time required for the electron to move from A to B

$$m = 9.1 \times 10^{-31} \text{ Kg}$$
$$e = 1.6 \times 10^{-19} \text{ C}$$



$$\omega = \frac{Bq}{m}$$

$$r = \frac{mv}{Bq}$$