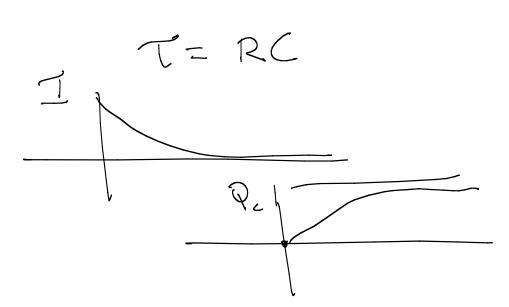
Phys 2120 - 4

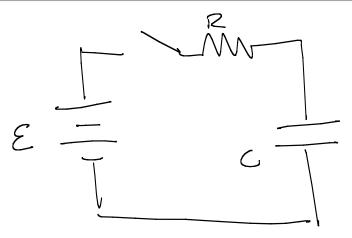
10/3/12

Note Title

10/3/2012

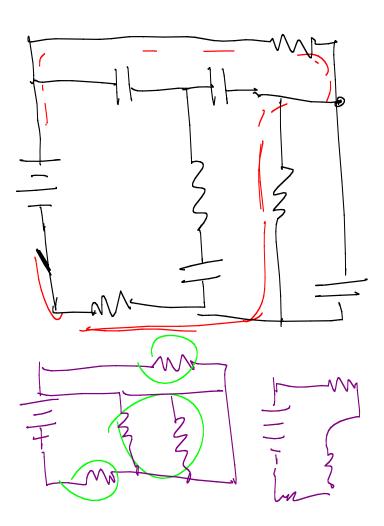
RC circuit





Stat with charged up capacitor

Long & Short Term Behavror



Chap 26 19 agnotism: Force & Field Electric 3 1 1 = g = SU = JUV Magnetic Field: Gwy force on a charge. Only on moving changes
B only comes from moving changes.

Force is greatest when v I B No force if \$ 11 B Force is perp to both. FI = gvx B Fil = gvB smO|

Rt

Hall

Fil = gvB smO|

Units. On to? F = gvx3 N = C.M. [B]

Big may field 1 gauss = 104 T Garth's may field 20,56 Vector

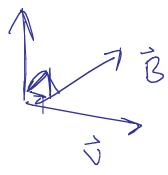
Units:

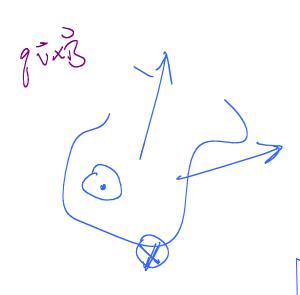
[B] = N Cing

= Tesla Kray yeng

in general

One simple case

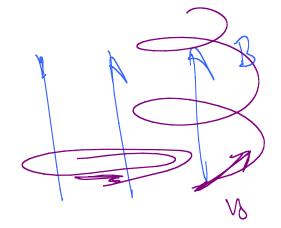




B

$$F_{z} = \frac{mv^{2}}{r} = 9vB$$

freg. of



paticles

r tronger to

field I'mes

Magnitude of Earth's field 15 0.5 james 26.18 new surface of Earth Max force on electron, KE = | Fmo | = 9 \ B \ V = 1.88 \times 10 5 B = (1.602 x10 c) (1.88 x10 m)

= 1.5 x 10 N (0.5 x 10 4 T)

Try = 8.9 x 10 30 N much smaller