Physics 201	Day 18
Exam 2 Reviews: Today, next Monday	in class
and next Tuesday, April 3 in SIE 2111. Come with G	nd 5-6 fm heations.
on Canvas, see: Sample MT	-3, pdf.
No Class Friday. Examz Fri 155, end of week 10.	6=
Quiz 3.0 on Ampere's Law on 1 April 2nd	Monday,
F7	2124
Find net force on Q. Include	0 BOUT = 0.567T
find net force on Q. Include	direction.
F=QF F=QVXB	
FE = 0.987 × 103 C × 312 = 0.3081	N

 $F_B = Q_V B \sin \theta = 0.987 \times 10^3 C 213\% (0.567T)$ Bless You. = 0.119 N m

Fret = 0.308N-0.119N up the page = 0.189N up the page +

1B.

Find B' needed to generate Fo to counteract (cancel) gravity.

$$B = \frac{mg}{Il} = \frac{m}{2} \frac{g}{I}$$

$$g = 9.8\%2$$
 $I = 0.123A$ 
 $need m in kg$ 

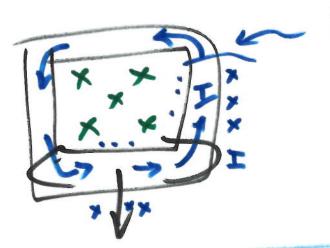
$$\frac{N}{A \cdot m} = T = \frac{N \cdot s}{C \cdot m} = \frac{Kg}{C \cdot s}$$

2. Slight variation: I want to solve the sample Faraday's problem posted pre-Spring break.

= d Bdq



at t=0, V=0 later, V incheases



since loop area increases blue field counters that.

3A. In Faraday's law 3 things can change. List. Give example.

B, area, angle between them.

move magnet closer/farther from loop of wire.

area: you could make loop bigger, or see problem 2 above.

angle: Oris spin magnet near loop