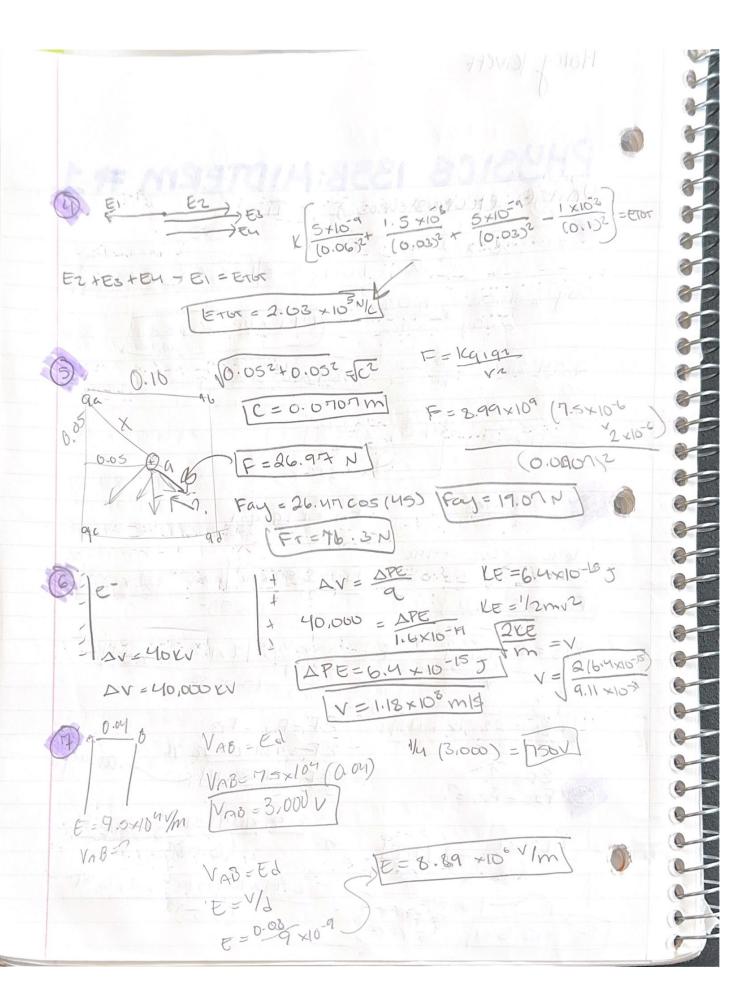
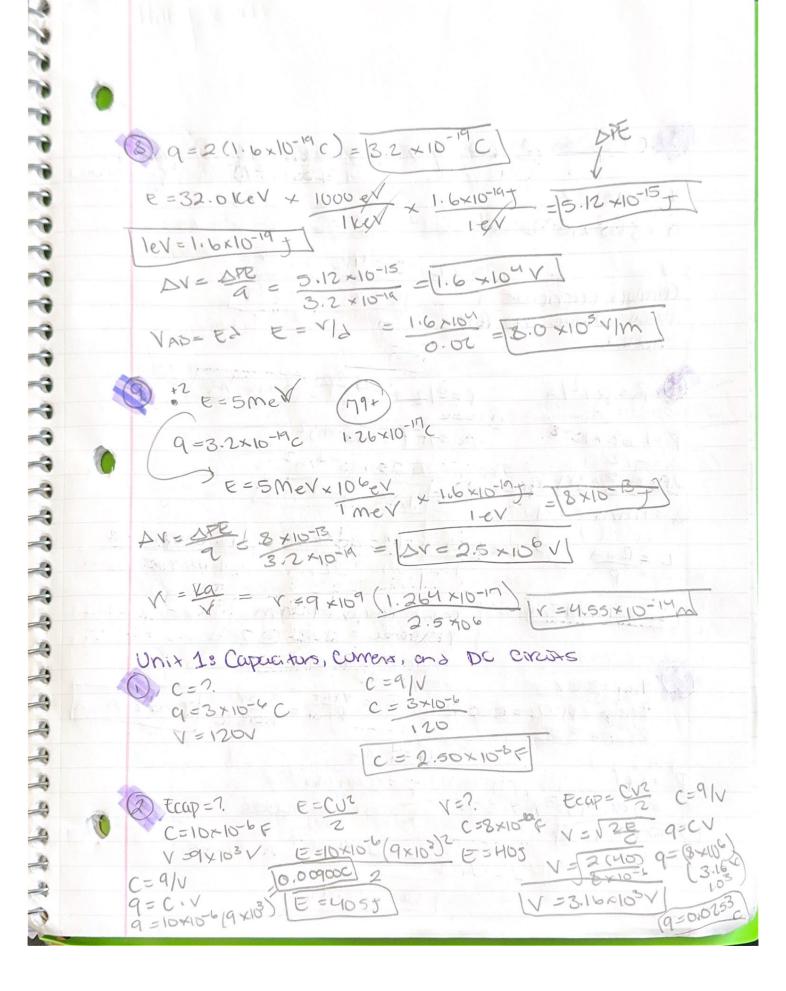
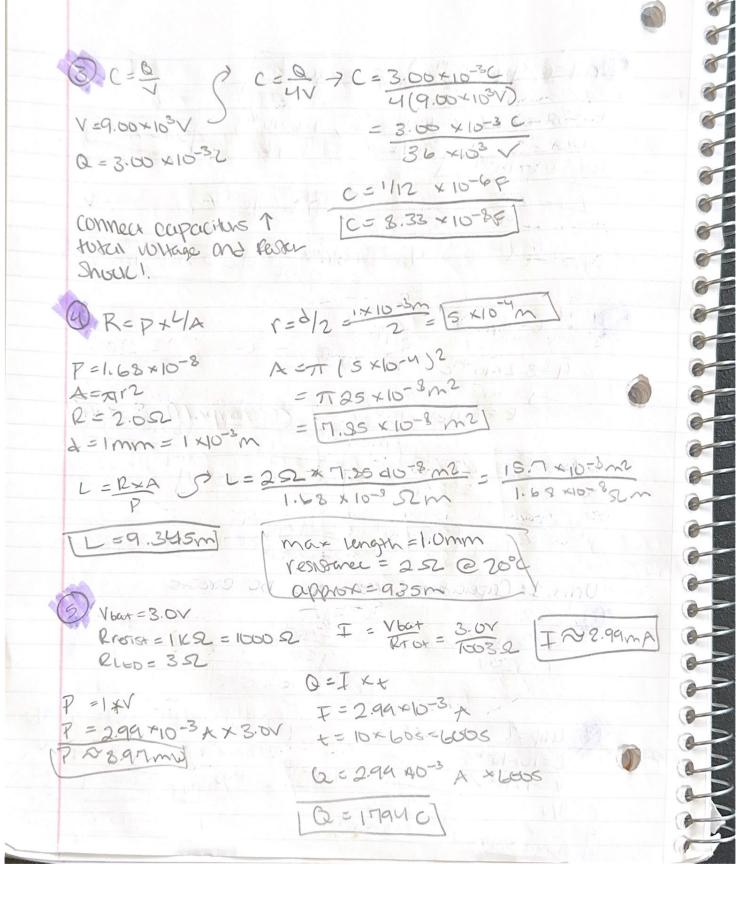
Holey Kivett PHYSICS 135B: MIDTERM #1 Unit O: ElectroStatics I + II D 2.00 NC * 10° M * 1.6×10-9C = [1.25 ×1013 excess 50g x 1mol 6.02 x1023 = 4.74 x 1023 atoms of copper 4.74 ×1023 × 29P = [1.37 ×1025 proxus] 1.25 ×1013 = 9.09 ×10-13 10 cm F12 = K | 91921 + lanc + 200 + 4mc Fiz = $43.152 \,\text{N}$ Fiz = $8.99 \times 10^9 \, \left[6 \times 10^{-6} \times 2 \times 10^{-6} \right]$ F23 = K | 92931 F23 = 8.99 × 109 | 2 × 10-6 × 11 × 10-6 EF=F12-F23 F23 = 28. M6 FN EF= 14.384 N) F away o 3/F23-F13=7. 8.99×109/1×10-6×2×10-61 -8.99×109 1×10-6 ×2×10-61 P3 = 12.8 N 36 right 8 (6.05)2







Unit 2: DC circuits w/ Resistore in Sense & permenillements DRI=10KSL LTUT = 1 + 123 Prot = 2 KSL 2000 = 10000 + 5000 + 123 AV=12V 2000 = too + 2000 + 103 2000 = 3 + R3 = 40 == 12× 2000 = 10000 F = 6×10-3 A = 5 10000 -1 R3 = 10000 2 = 2000 SZ FI = AV = 12V = 1.2mA = 13 = AV = 12000 st 6mA In = DY = (2.4 mA) Vytoran = V Eax #1 + Vbat #2 ... - exc. V o Kinda VOOK = 1 ×1.5V > = 1 × 1.5V V to x a 1= 3V r = 6.025 r = 6.025 r = 6.025 = 6.025 = 6.025 = 6.025 = 7.57ENCE 10:002 PL=IC2 RC

FL=IC2 RC

FL=IC2 RC

FL=IC2 RC

FL=IC2 RC

FL=IC2 RC

FL=3.500

FL=3.500

FL=3.500

FL=3.500

FL=3.500

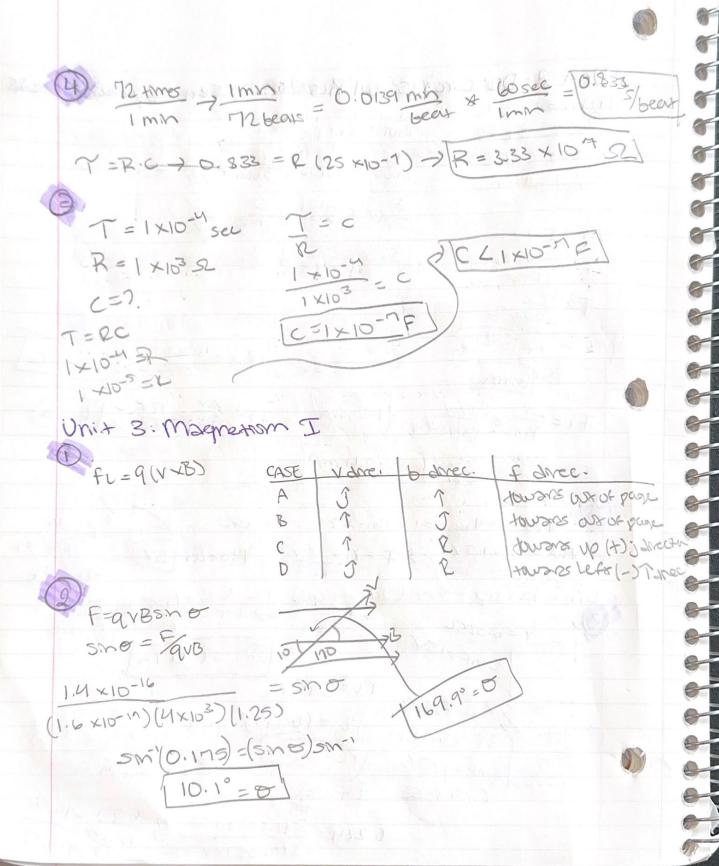
FL=3.500

FL=3.500

FL=3.500

FL=3.500

FL=3.500 (=0.1 SZ #T=1/7 $0.224 = \frac{3(1.58) + 1.53}{3(0.02) + 1 + 10} \frac{6.27 - 10.06}{10.01 + 10.05}$



 $7 = \frac{mvr}{|q|B} \rightarrow q = \frac{mvr}{vB} \rightarrow q = \frac{2.66 \times 10^{-26}}{0.231(1.20)}$ 4.80×10-19 C -[3]

1.6×10-19 C -[3]

[9=4.80 × 10-19 C] m = B.r) mi6 = Mi6) mi6 = 16/18 mi8 M18 = 3 × = 9 = Br18 -> 9/8 = Br16 CIRMAN CIRMAN VI6 = VI8 = V - 9/8= = > / = 9/8 + 3 F=IlBSIND F = 100(0.25)(2) sn(90)[F=50 N] 5) T=NIABSNO -> T $200(25)(0.2^2)\sin(90) = B \rightarrow [1.507 = B]$ Case 18 direction

