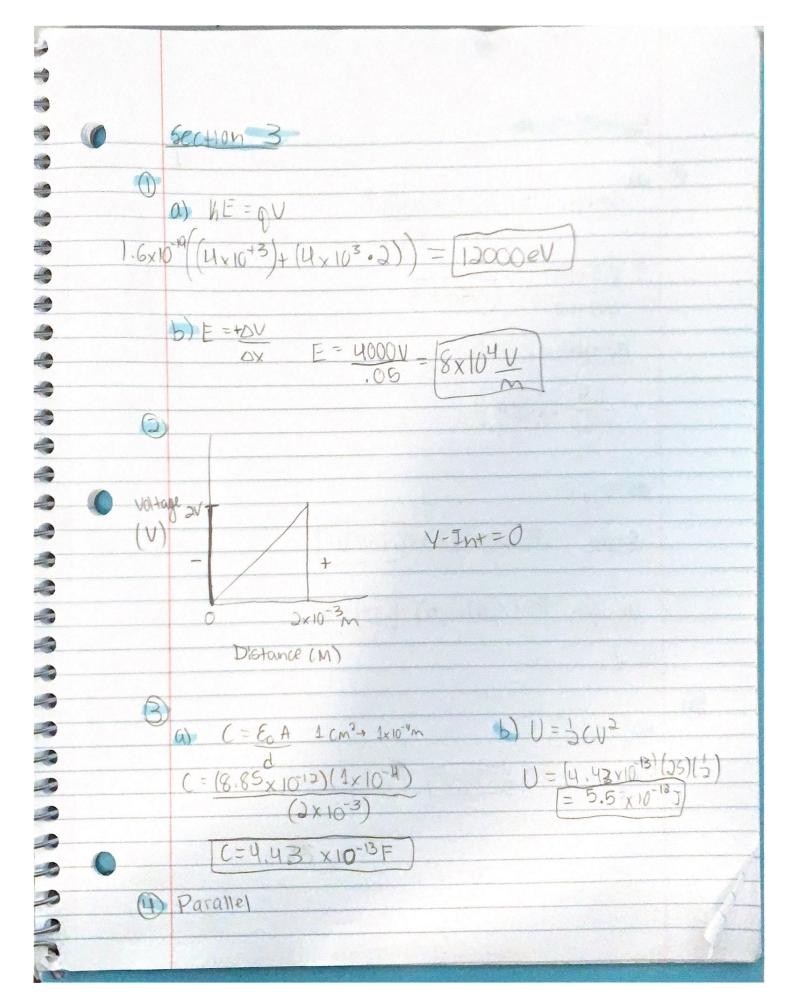
6 Midtern Coco Section 2 $a = 3 \times 10^{-3} = x$ $x = 10^{-9}$ $(1 \times 10^{-3})^2 = x = 3 \times 10^{-9}$ E(= 2×109 (1006)2 Ec=8×10-5 V/m b. 8x10-3=(9x109)(1x10-6) d= V(1×10-6)(9×109) 8×10-3 d-1060 Ec=(3×10-6) (9×109) (1060.66)? Ec= 2.4x10-2V/M 9 0

6

2) a. F=ma m=4x10-16x19 a=10 m/5ª F= 4×10-15N F=QE 4x10-15N=q(6131,25N/C) 6131.25 N/C 9-6.5 × 10-19 9 6.5 × 10-19 - 4e 6) Q=6.5×10-19-1.6×10-19
Q=4.9×10-19 Fig) = 4x10-15 F- 4.9×10-19) (6131.05) F= 3×10-15 Fret = Ma $F_g - F_e = a$ 0=4×10-15-3×10-15 /a=2,5m/52



Section 4 Sereis: $J = (emP_1 + emP_2)$ $(r_1 + r_2 + R_{load})$ I=(1.5+1.5) - (.056 A Parallel: Frot = 13+ 12 = b) P= IV Series: P= (.056)(3) = .168 W Parallel: P= (.03)(1.5) = [.045W 9 b) 35-(-75)=105V