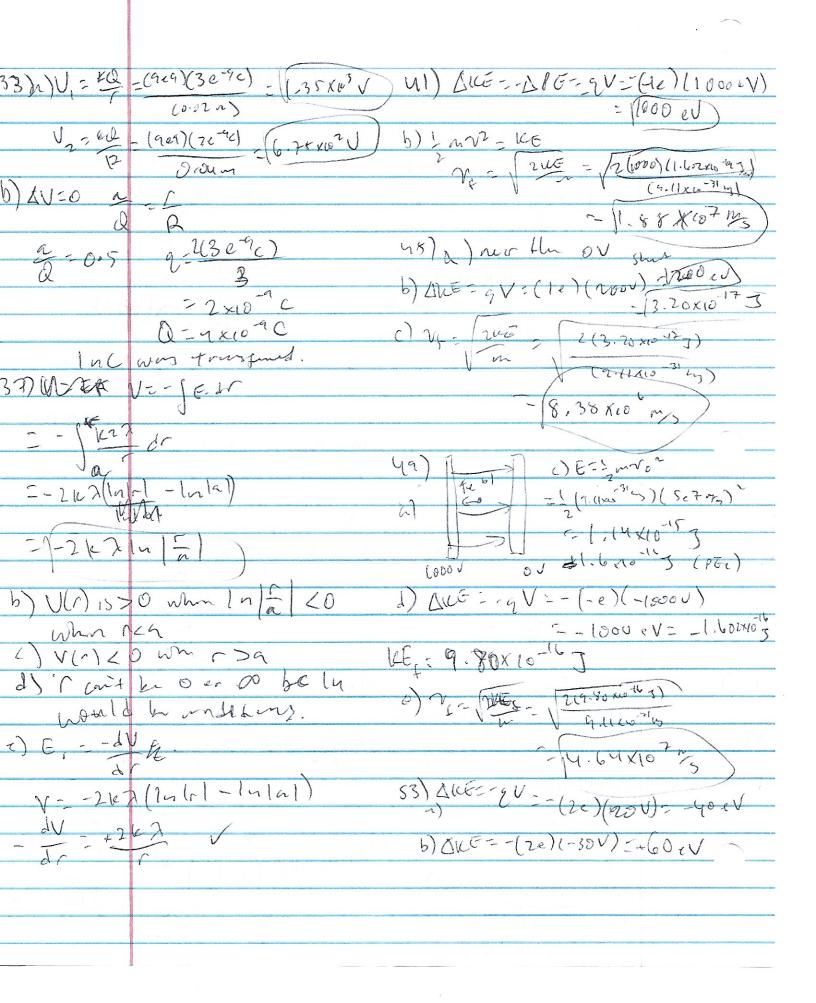
ch 17 prolony DW -- DIG- qV= (-5.00 ×10 °C) (7) V9 = PED 21) V= KQ V= JE: dr 5) ADV = Ed = (3.0×104/2)(1000 m) b) 0=Q A C-Q = 80A B= De toplations Q = 60 V = (6.8 5x10 12 5/2) (2.0 cm 2/1002)2 1000 n 7) a) Te = kQ Vyan - GM b) V = GM, V = 0 miliam / (14 (+1) hiss th fill will be liss = (6.67 x 10 41 NJ,) (5.97 x 10 mm) 25) V= kQ+ + KQ-V52+2-52 = KZe = KZC - 7-12 K1013 Fm - Kz(= - =) 13) a) Q - 6 = E & m² = (1.00x10ⁿ N) (8-85x10ⁿ F) MD DQ - 8-85 10⁻⁵ = 8.85 X10⁻⁶ Cm 6) V- KZe - KZC = 0 292 NV = MD 12 (3- 72) () V= Ex=((0ey /)(0,1 m) - 12 2 (0-05 m) = 11.0 x10° V a) Vsmen - LO (3-R) = [1.62 ×103 V)
- LO (3-R) = [1.62 ×103 V)
- LO (3-R) = [1.62 ×103 V) 2-15 = (1-00/10-814) (2.82m) -9.8 X10 9C



E -- 1.08x107/25 E2 = K101 = (aea) (2.0 x10-6c) (35 mb - 9 coso) 5, vid = 00 5 tost = 12 57) W V= 60 6) PE=qV= - kdq 2- grand dis 4 910 X105 \$ - 9. 83 x10 50 \$ e) 1 mNex 4 - lida = 0 Etom = -1.04×1072 5-9.83×10727 1 males - 6 da b) V- NO1 + KO2 - K (1300x0 c) (20 c) Visi2 - 2 war = [-4.02 x105V) Vesi = Treda c) $PE = -\hat{p} \cdot \hat{E}$ $5 \cdot \hat{j} = 1$ $5 \cdot \hat{j} = 0$ $= -(6 \cdot 0 \times 10^{-30})(-1.00 \times 10^{7})$ $= (6 \cdot 20 \times 10^{-73})$ d) Vesego to inde p. or m $\frac{1}{2} = \hat{\beta} \times \hat{E} \qquad \hat{\beta} \times \hat{\beta} = 0 \qquad \hat{\beta} \times \hat{\beta} = -k$ $= (6.0 \times 10^{-30} (-n) \hat{\beta} \times (-9.87 \times 10^{52}) \hat{\gamma}$ $= (5.90 \times 10^{-24} N.m) \hat{k}$ ble I av mil toMan cencus and them on and han It's fle change (5) PG = K (Q102 , Q103 + Q203) e) Nen 2 - 26 la The = (951 Non) (250.250 + 250-30+ 30.30) mr. (3 e 8 "3) (9.11+10 "by (10 "m)
2 leg 2 (9eg Nive X (1.602 x 10 - 60) (69) PE do = - P. E P.P=1 PEde - - P. E. E2 - K2P2 A PE -- K2/1/2 Ez= KQ. (9e4)(-3,0x10 () of