Test 2 Solutions 9x102(1.6x10(9)2 (9x1515) = (167KD)V => 1.6x (5 = 1.67 × (0 · V V = V = 2.5% 10 13 = 13.24013 J328/013 = (3.9×10 %

= LQ = LQ 16R r= constant if r< R: = 10 1-5 E = K9 = K9 = 256 R2 1024 th Re e) E=0 (e) E=0

Solutions 550 14×109-ln 3,25 1.496×103 18×109 0.0831 XCO In 225 550.21TE0 m 335 550 = 560. (0.3677) (1) · M 3.25

= [8,318(0 8c/m 2 61 4.25 - (18×10) (8.31×10) 2116, 3.25 In (3.25/2,25) 550. (4.25/3.25) M (3.25/2.25) = [401.3 CT]= SAME! Since DV = 2.61 3.25 = - 2 · 0 21/20 peober on Equiporential surface.

 $Q = (6 \times 0^6)(10)$ = 600M C on the m fig. 2: 9= (4x(0°)(100) = 400MC on Cs in fig. Z, Q = (ZX/0)(100) = 300M C Thus the top 2 the c's in tig. I mue OF SOONE,

(B) I = Q = AVERAGE CURRENT

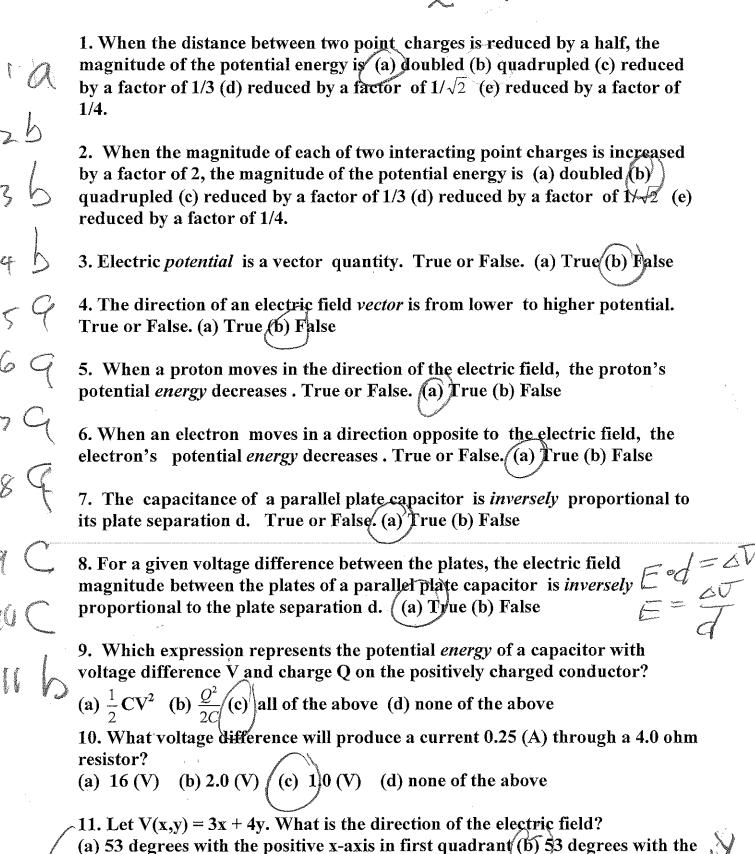
State

(8 sec)

8.000 = [41.14 Amps]

(C) Total

note: The current is an upside dows parabella vs Eimet. between ound to Q is the area under the I Vs, E enrug between o and to Where t = 8.0 (S). I=0 at == 9.20), set 55-0.658=0 and solve for 9,2 cs).



negative x axis in third quadrant (c) nota