Date	Scotlem / Topic / Description
Hue D' Mai	
Engr 65	e. If charge flow is expressed as get = (14+2+8+-2)C, determine the current flow  4 recall that i & dy/dt; a=14+2+8+-2>C
H.W 1	1. 1 = 1/dt [ 146 + 84 - 2) = 28+ +8/
9.4.22	1 / dr L 118 7 87 - 2 / 2 8 7 8 /
	L. Churce Mon is expressed on octs = (11-6-21-2+) = P
	6. Charge flow is expressed as get = (11e-t-2/e-2+)nC b; = dy/dt; a = 11e-t-2/e-2+
	bi= d (11e+) -d (21e-2+)
	dt 1 -1/e + - ( - 42 e - 2+)
	1, -11 = t + 42 = = i V
	C. Given the charge cutting the terminal of elements demonstrated
	by picture below, given A= 10, find the current at Inv. cms, 10 ms
	g(+)= 90 = A
	I. L. Lo, 2], Consider positive relationship
	1 2-0 = 45 mC/ms
	1, 45 C/2; 9(4) = 45+C Consider current (I = dy/dx); I = d/45+) = 45
	17 Thus, at Ims there is 45 A
	II. 4 [2,8] Consider shut this introd is Constant; thouby, no changes.
	1, Thursby, at 6 ms, there is OAV
	II [8, 12], Consider decline relationship, find slope.
	$\frac{1, 0-90 - 90 = -22.50}{12-8}$
	12 12 12 12 12 12 12 12 12 12 12 12 12 1
	March 10 mm day 1 - 22.5 A

Loblem 2 towarter surage it it is used twice per day for, 2 weeks. Consider energy cost I cents / kwh 4 6 min - 2 - 14 (-98) 4 (2.8)9 = 25.2 lent 4 Consider derived answer is energy which is neurured in Jouler; olus, consider In = 1/2ce 4 Given what the = 796 W 4 Thp + Walts + Joules / see 1, 7 . 746 (30 min : 60 sees) 11 Couridor 8h 6 = PCT) 1, 9399600 = 9.399600.106 Joules C. Graph depick courgy drawn by a plant from 8:00 tom to 8:30 A.m. Celulak the total energy in much consumed by plant. 4 Consider that P=EUT) 1> from 8:00-:05 = 5(5), 8:05-:10= 4(5), 8:10-:15 = 3(5), 8:15-:20=8(5) 8:20-:28 = 5(5), 8:25-:30=5(5) 4 SCS) + 4(S) + 3(S) +8(S) + S(S) +0 1 190/60 - 2.33 Mach

Soblun 3		
Given that i entering positive terminal is icts = 13e-2+ m A and	146	
Voltage across the clusice is NCHS = 6 differ V		
a Caluluse she pour obort by the durce		
4 Courider the feet that pct = V(t) i(t)		
4 Courieder the fact that ples=V(t)v(t)  4 Courieder the fact that ples=V(t)v(t)  4 Given vets = 6 dijet v ; i(t) = 13e -2t mA		
4 6 (dx (13e-2+:10-3) (13e-2+.10-3)	1	
6.13.13.10-6.e <sup>-26</sup> . d/d+(e <sup>-2+</sup> )		
Ly (1.014.10-3.e-2+) 2+e-2+		
1,-2.028-10-3-6-48		
4-2.028.e mW		Page
b. Caballete energy obsorbed in 3 records		/
lasider &= \$\frac{1}{5}\text{plt},  \text{bounder } \\ \frac{1}{5}\text{conder} \	dt = 5.00.10	wift)
5-2.028-10 -4	e -12	a second

4. Courder Hu following figure, · Consider, Ceinen - 1 = -195W P = 50W P = 35 W a Calulate of = Total of P =0 1, Consider -195 +50 +35 + 20 9 13 =0 1 -95 + P =0 4(-95 = -Pg)-1 4 B = 95 W b. I'mel ale pour obserted by elements whin given fig. given, 1 = 13.00 A, 1/2 = 18.20 A Conside & P = Vi 4 Thruby, P. = -13A (30V) - Neguther = -390 W P, = 13 + (10v) - Pouble T = 130 m P, = 18.20A (20V) Positive T = 364W Py = - 4 ( 13.000) C8V - Nyutru T = -41.6 W Ps = -0.4(13.00A)(12V)-Negutic I = -62.4 W