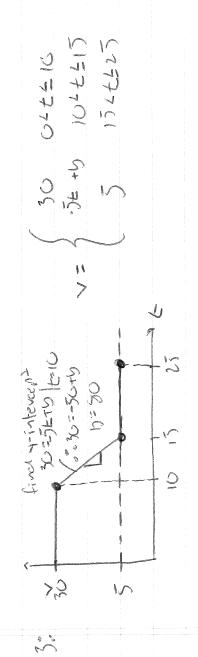
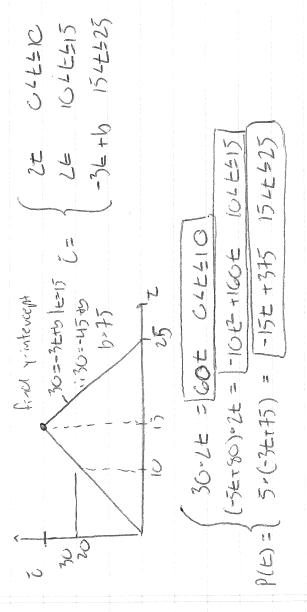
MEMS COSI - HW1 Solution)

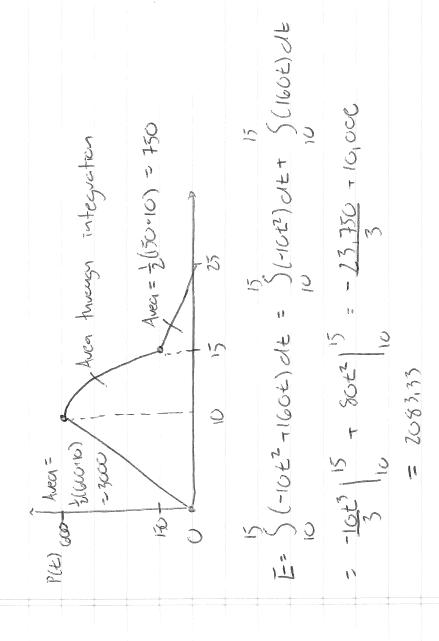
#1.
$$q(t) = 1(1-e^{-10t})$$
 for t20. Defermine $i(t)$ $i(t) = dq(t) = d [1(1-e^{-10t})] = d [1] = d [-e^{-10t}]$



4



need 3 いろくろう Curryy ろ、た the total P(t-L) THE determine suder 255 12



900 1 517(34) たつら i(4)= 1) さ 222 4005(3t) 25IN(3L) and evaluate Gien V(t)= 4 cos (3t) [N] P(4)= V(4) [(4)= P(t-) determine

5,833.53[J

· E- 3,000 + 4083,33+ 450=

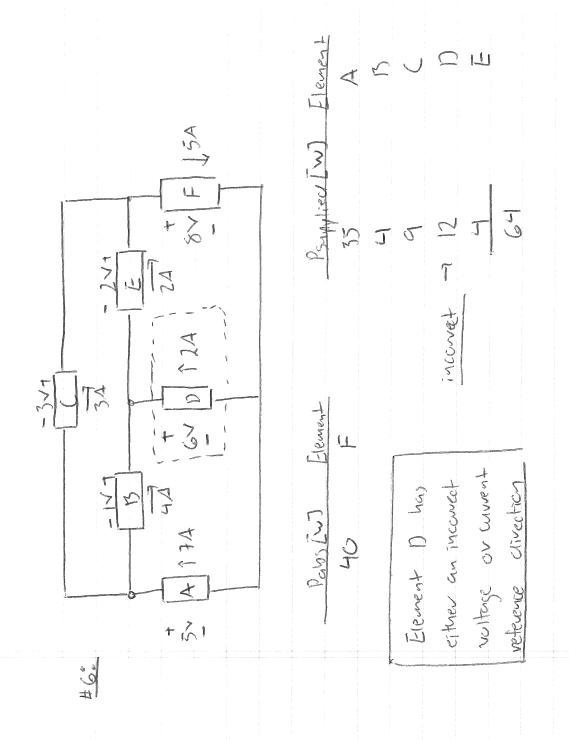
1 cos(3t) sin(3t) 5:4 (62) Additionally, can be expressed as

P(6=0,5) P(t=1) G.C235[w]= P(6-10[5])= 1 (csa) 5749)=[-CoU460[w]= 1) P(t=0.523)= 1005(1.51 sin(1.5) Note: vacious, not degress,

C.5[A] ." ひって (715%) 456

2,700 4.5 [w]. GCC[5]= 25 9[2] 05[2]= P(10 man) = E(600 [5]) =

10



			(vegistance is not	(coustant- woulined			
アード	4	7	0	9	R	2	
CLAJ	٢,	7	S	2	7	9	
(7)>	2	Ţ	0	5	33	9	
 出							