

0.4	P FA D 1 10 2011 D PAI
QA	$\frac{1}{2} = \frac{1000}{100} = \frac{1000}{1$
	a. calculate i(t) to by computing zono-state  b. response and zono input rusponse
	b. Is there a steady state value of i(b)?
Q5	GIVEN a network N containing 2, L and C. The Jun - State response v, (t) to the Sinuscidal input 1, (t) = c052+ for + > 0 15 gurin by
	$V_1(t) = e^t + 2e^t + \cos(2t + 60^\circ)$ f $\geq 0$
	The complete Ausponse for 12(r) = 3(092+ +70 whum The circuit starts from certain initial state is:
	$V_2(t) = -\frac{t}{2} + 3\frac{2t}{3} + 3\cos(2t + 60^\circ) + 78$
	Determina complete worponse for 13(+) = 50052f +70 1/4
	The circuit starts from same initial state.

G.6 !	$C = \frac{1}{13} = \frac{1}{2}$ $C = \frac{1}{2}$ $C = \frac{1}{2}$
a,	Write down the differential equation governing the across capacitor and solve for (c.l.) for 1 > 0 for two input Negrouse if 1(c(0) = 2 voits any 1'(0) = 5 amp.
	How connect a current source is th = cos2t t>a = 10 parallel to the network  In that and thoris are same.  Finish the cumple le response  Same as in cay
C .	Can you seperate rum. Stak response from the