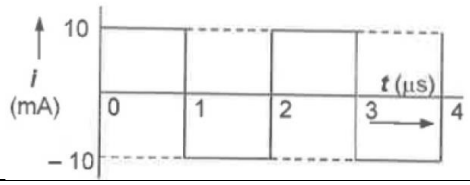
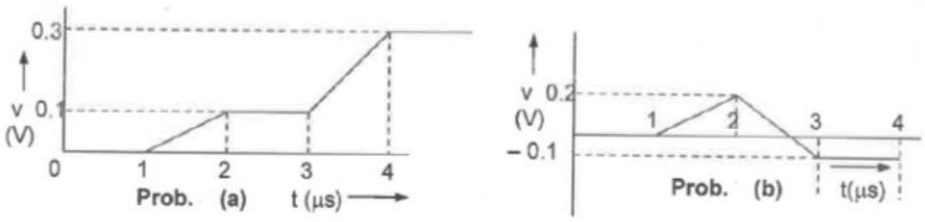
Answers of Assignment 3 and 5

Q. No.	Answers (Assignment-3)
7	V_x= 10.83 V
9	I_2= 1.3 A, P(1A)= 60 W, P(200Ohm)= 18 W, P(100V)= -130 W, P(50 Ohm)= 32 W, P(0.5A)= 20W
25	33.06 micro Watt
40	Vth= 75 V , Rth=12.5 Ohm, b. 72 W, c. 112.5 W
42	a. Vth=120 V, Rth=10 Ohm, b. I_N= 12 A, R_N= 10 Ohm, c. v1=49.41 V, d. 7.059 V
61	R_L=15.8 Ohm, 6.329 W
63	Vth=65 V, Rth=15 Ohm, b. P_{max}=70.42 W
Q. No.	Assignment-5
1	Ans. 1 (a) and (b) both: 
2	
3	R1= 2 k-Ohm, R2= 6 k-Ohm
4	i(3us)= 2 mA, i(6us)= 0 mA
5	a. Vc= 425 mV, P(40 Ohm)=14.98 W. Vc= 1.2 V, P(40 Ohm)=0 W.
6	a. V(L)= 0, i(L)= i_s= 1 mA, V(L)= 0, i(L)= i_s= 1 mA,
7	I= 3mA, v= 60 V