Problem Sheet -1 JEC102 (Q1) A 2-terminal device consumes energy as shown by the waveform in Fig.Q1. The coverent through the device is $i'(t) = 2\cos(4000\pi t)$ A. Find the voltage across the device at t = 0.5, 1.5, 4.75, and 6.5 ms.

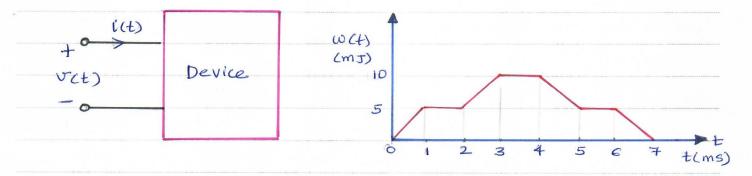


Fig. Q1

Find the power absorbed & supplied by the element 3 of the chacuit shown in Fig. 92 20V Fig. Q2

Q3) In the circuit shown in Fig. Q3, compute the power delivered & aborbed by the dependent source.

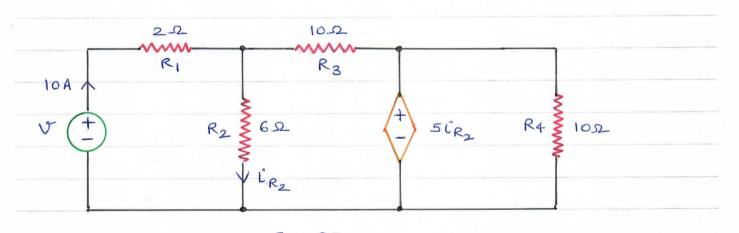


Fig . Q3

