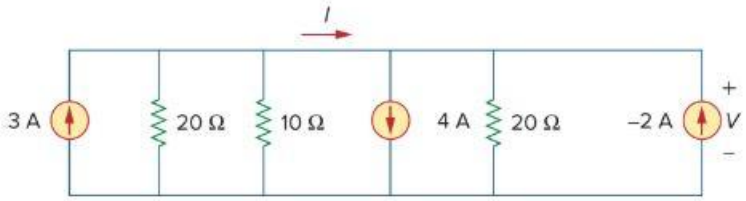
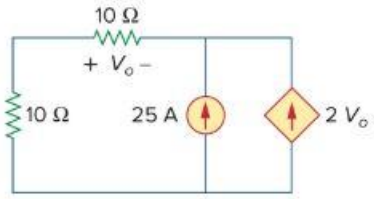
Homework 2

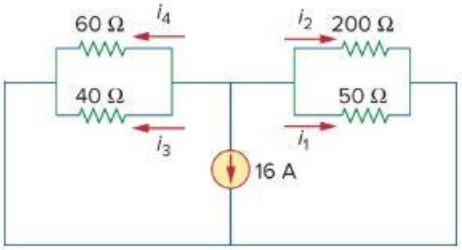
2.18 Find I and V in the circuit of **Fig. 2.82**.



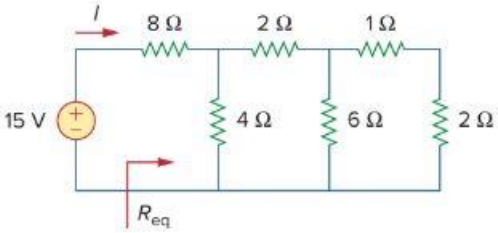
2.22 Find V_o in the circuit in **Fig. 2.86** and the power absorbed by the dependent source.



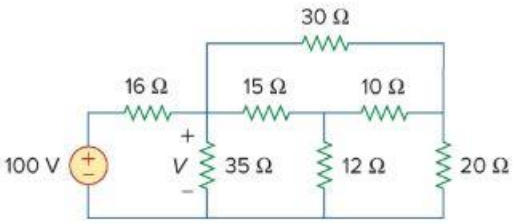
2.32 Find i_1 through i_4 in the circuit in **Fig. 2.96**.



2.40 For the ladder network in **Fig. 2.104**, find I and R_{eq}.



2.56 Determine V in the circuit of **Fig. 2.120**.



2.69 A voltmeter is used to measure V_o in the circuit in **Fig. 2.129**. The voltmeter model consists of an ideal voltmeter in parallel with a 250-kΩ resistor. Let V_s = 95 V, R_s = 25 kΩ and R_1 = 40 kΩ Calculate V_o with and without the voltmeter when

(a) R_2 = 5 kΩ

Answer

(b) R_2 = 25 kΩ

Answer

(c) R_2 = 250 kΩ

Answer