

Q1) For the circuit shown in Fig (1).

1. Find the equivalent resistance R_{eq} .
2. Find i .

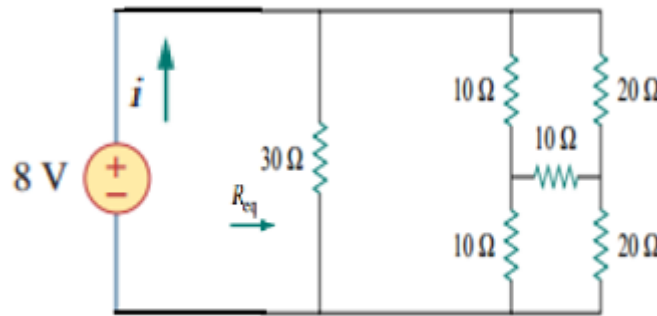


Fig (1)

Q2) For the circuit shown in Fig (2).

- Determine the voltages V_1 , V_2 , and V_3 .

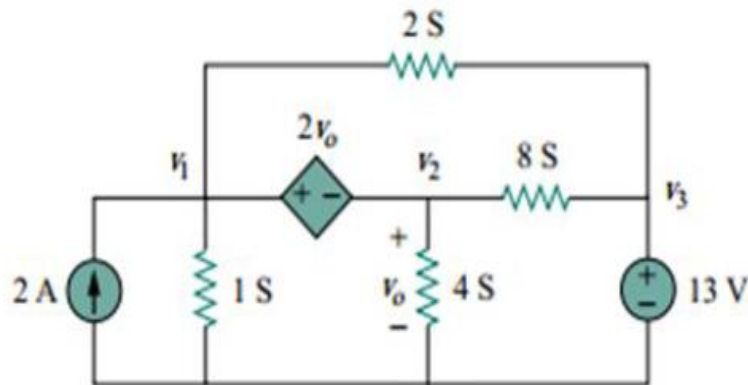


Fig (2)

Q3) For the circuit shown in Fig (3).

1. Find i_1 to i_4 using mesh analysis.
2. Power dissipated in resistor 8 ohm .

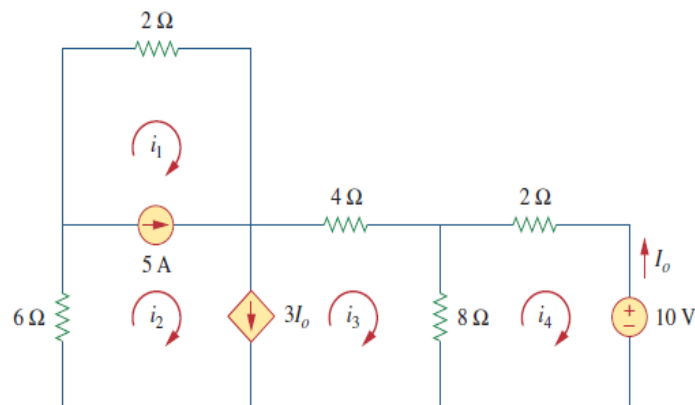


Fig (3)

Q4) For the circuit shown in Fig (4).

- Apply source transformation to find V_x .

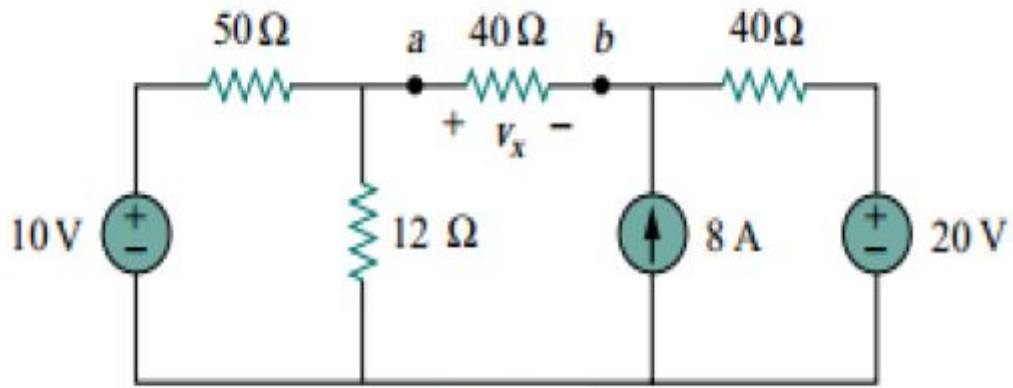


Fig (4)

Q5) For the circuit shown in Fig (5).

- According to thevenin equivalent circuit, Determine the maximum power delivered to the variable resistor R.

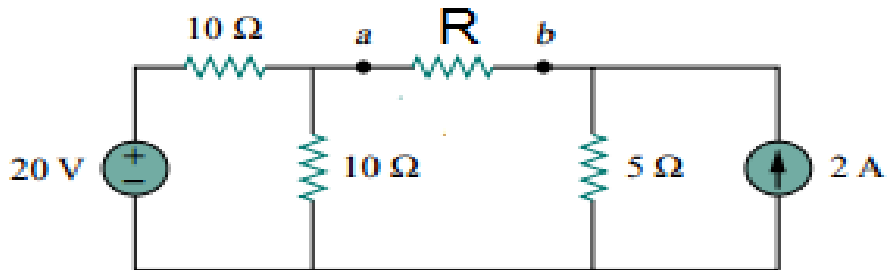


Fig (5)