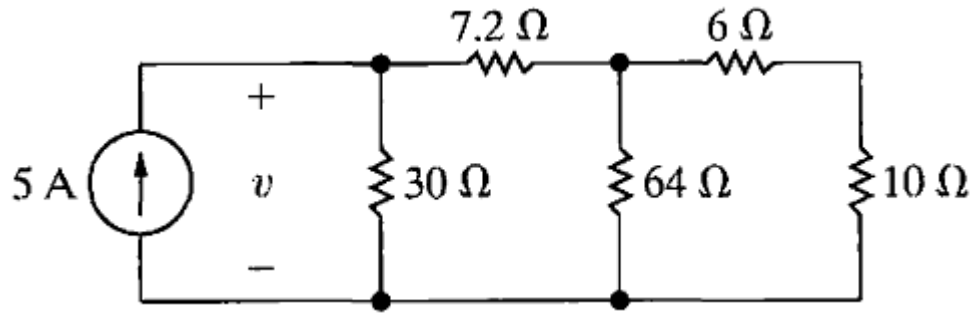
**EE 202-132**

**HW2 (due Sunday 23/2/ 2014)**

**P1**



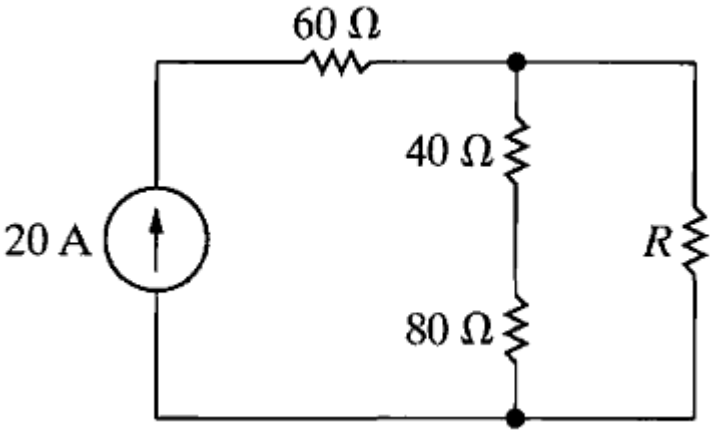

for the circuit shown:

(a) **Use the combining resistor techniques** to find the voltage $v$

(b) the power delivered to the circuit by the current source

(c) the power dissipated in the 10 Ω

**P2**



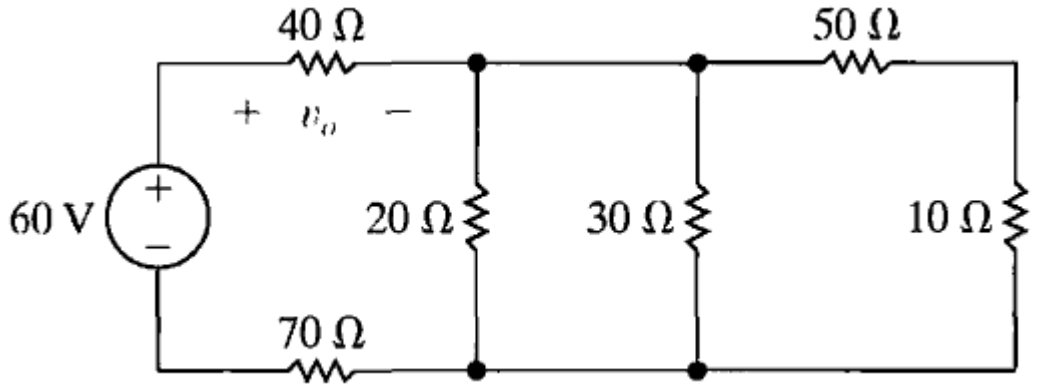

for the circuit shown:

(a) **Use the current division techniques** to find the resistor $R$ that will cause a 4 A to flow through the 80 Ω resistor

(b) the power dissipated in the resistor $R$ of part (a)

(c) the power generated by the current source for the value of $R$ part (a)

**P3**



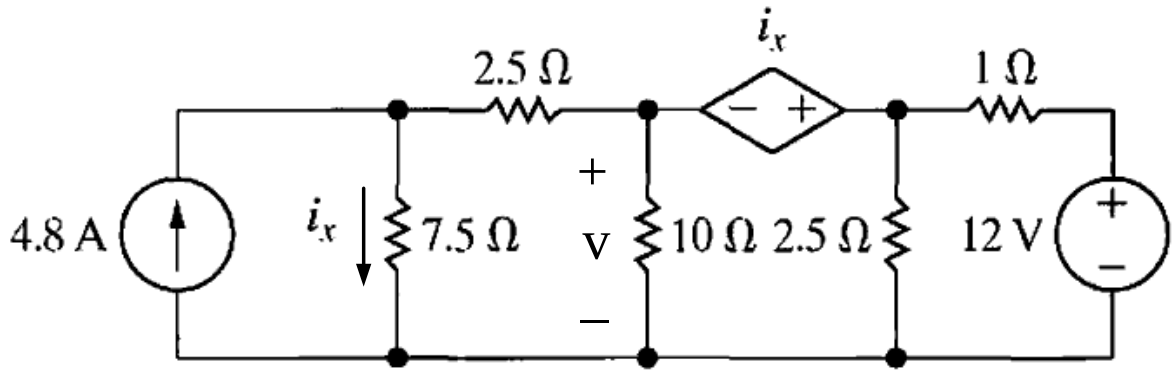

for the circuit shown to find the followings:

(a) **Use the voltage division techniques** to find the voltage $v_o$

(b) **Use the current division techniques** to find the current through the 30 Ω

(c) How much power is absorbed by the 50 Ω

**P4**




for the circuit shown, **use the node-voltage** method to find the voltage **V**