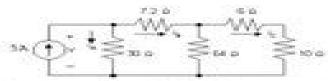
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# 3

# Simple Resistive Circuits

#### Assessment Problems

#### 入户 3.1



Start from the right hand side of the circuit and make series and parallel combinations of the resistors until one equivalent resistor remains. Begin by combining the  $6\Omega$  resistor and the  $10\Omega$  resistor in series:

$$6\Omega + 10\Omega = 16\Omega$$

Now combine this 16 \$\Omega\$ resistor in parallel with the 64 \$\Omega\$ resistor:

$$16\Omega 264\Omega = \frac{(16)(64)}{16 + 64} = \frac{1024}{80} = 12.8\Omega$$

This equivalent  $12.8\Omega$  resistor is in series with the  $7.2\Omega$  resistor:

$$12.8 \Omega + 7.2 \Omega = 20 \Omega$$

Finally, this equivalent 2042 resistor is in parallel with the 3042 resistor:

$$20 \Omega 330 \Omega = \frac{(20)(30)}{20 + 30} = \frac{600}{50} = 12 \Omega$$

Thus, the simplified circuit is as shown:



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# Nilsson Electric Circuits 9th Lab Manual

**Arthur James Wells** 

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