

3

Simple Resistive Circuits

Assessment Problems

AP 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 6Ω resistor and the 10Ω resistor in series:

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

Now combine this 16Ω resistor in parallel with the 64Ω resistor:

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

This equivalent 12.8Ω resistor is in series with the 7.2Ω resistor:

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

Finally, this equivalent 20Ω resistor is in parallel with the 30Ω resistor:

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

Thus, the simplified circuit is as shown:



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**Edward Hughes, John Hiley, Ian
McKenzie Smith, Keith Brown**



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