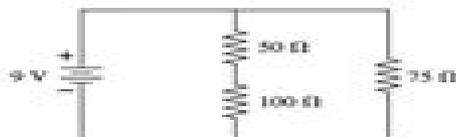


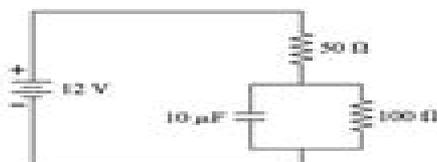
PROBLEM SET 11 SOLUTIONS

31.1. Solve:



From the circuit in Figure EX31.1, we see that the 50 and 100 Ω resistors are connected in series across the battery. The 75 Ω resistor is also connected across the battery in parallel with the first 50 and 100 Ω resistors.

31.2. Solve: In Figure EX31.2, the positive terminal of the battery is connected to the 50 Ω resistor, whose other end is connected to the 100 Ω resistor and the capacitor, which are in parallel. Thus, we have a resistor connected in series with a parallel combination of a resistor and a capacitor.



31.8. Model: Assume ideal connecting wires and an ideal battery.

Visualize: Please refer to Figure EX31.8.

Solve: The power dissipated by each resistor can be calculated from Equation 31.14, $P_R = I^2 R$, provided we can find the current through the resistors. Let us choose a clockwise direction for the current and solve for the value of I by using Kirchhoff's loop law. Going clockwise from the negative terminal of the battery gives

$$\sum_i (\Delta V)_i = \Delta V_{\text{bat}} + \Delta V_{R_1} + \Delta V_{R_2} = 0 \quad \Rightarrow \quad +12 \text{ V} - IR_1 - IR_2 = 0$$

$$I = \frac{12 \text{ V}}{R_1 + R_2} = \frac{12 \text{ V}}{12 \Omega + 18 \Omega} = \frac{2}{5} \text{ A} = 0.40 \text{ A}$$

The power dissipated by resistors R_1 and R_2 is:

$$P_{R_1} = I^2 R_1 = (0.40 \text{ A})^2 (12 \Omega) = 1.9 \text{ W} \quad P_{R_2} = I^2 R_2 = (0.40 \text{ A})^2 (18 \Omega) = 2.9 \text{ W}$$

31.20. Model: Assume ideal connecting wires.

Visualize: Please refer to Figure EX31.20.

Solve: The resistance R is given by Ohm's law, $R = \Delta V_R / I_R$. To determine I_R we use Kirchhoff's junction law. The input current I splits into the three currents I_{10} , I_{12} , and I_R . That is,

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