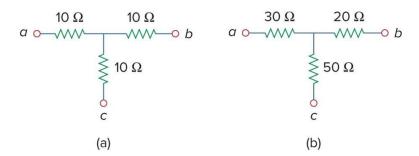
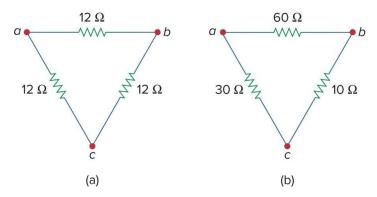
Electric Circuits

Homework Set 4

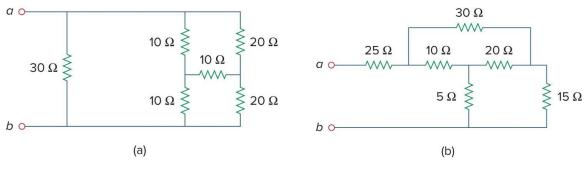
1. Convert the following circuits from Y to Δ .



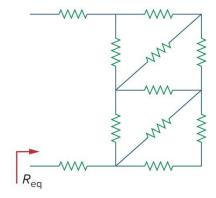
2. Transform the following circuits from Δ to Y.



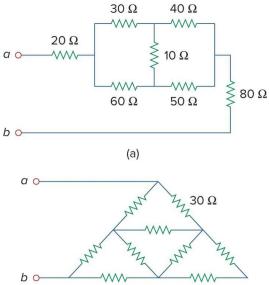
3. Obtain the equivalent resistance at the terminals a-b for each of the following circuits.



4. For the circuit below, find the equivalent resistance. All resistors are 3 Ω .

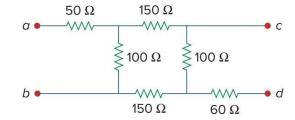


5. Obtain the equivalent resistance R_{ab} in each of the following circuits. In (b), all resistors have a value of 30 Ω .

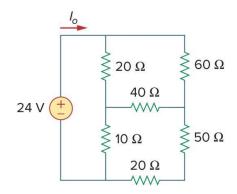


(b)

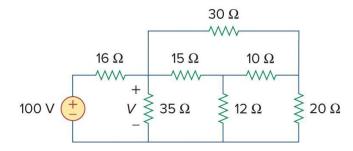
6. In the following circuit, find the equivalent resistance at the terminals:



7. Calculate I_0 in the following circuit.



8. Determine *V* in the circuit below.



9. Find R_{eq} and I in the following circuit.

