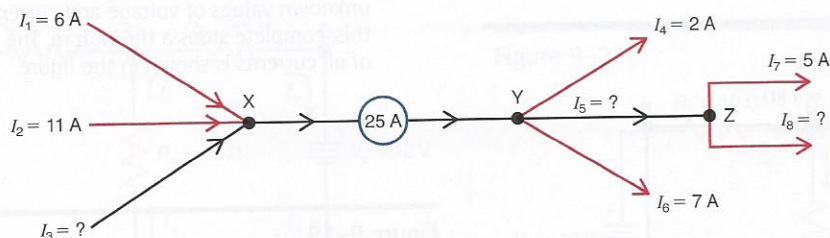


Figure 9-11

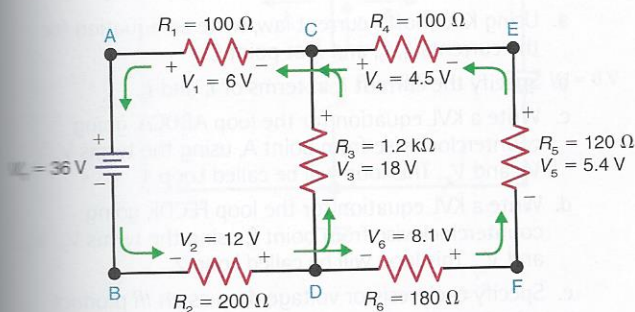


SECTION 9-2 KIRCHHOFF'S VOLTAGE LAW (KVL)

9-6 **MultiSim** In Fig. 9-12,

- Write a KVL equation for the loop CEFDC going clockwise from point C.
- Write a KVL equation for the loop ACDBA going clockwise from point A.
- Write a KVL equation for the loop ACEFDBA going clockwise from point A.

Figure 9-12



9-7 In Fig. 9-12,

- Determine the voltage for the partial loop CEFDC going clockwise from point C. How does your answer compare to the voltage drop across R_3 ?
- Determine the voltage for the partial loop ACDB going clockwise from point A. How does your answer compare to the value of the applied voltage, V_1 , across points A and B?
- Determine the voltage for the partial loop ACEFDB going clockwise from point A. How does your answer compare to the value of the applied voltage, V_1 , across points A and B?
- Determine the voltage for the partial loop CDFE going counterclockwise from point C. How does your answer compare to the voltage drop across R_4 ?

9-8 In Fig. 9-13, solve for the voltages V_{AG} and V_{BG} . Indicate the proper polarity for each voltage.

9-9 In Fig. 9-14, solve for the voltages V_{AG} and V_{BG} . Indicate the proper polarity for each voltage.

9-10 In Fig. 9-15, solve for the voltages V_{AG} and V_{BG} . Indicate the proper polarity for each voltage.

Figure 9-13

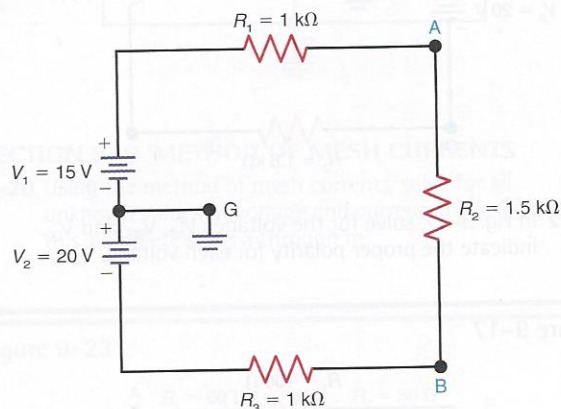


Figure 9-14

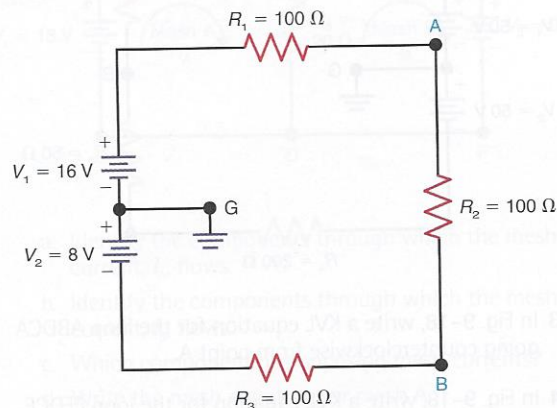


Figure 9-15

