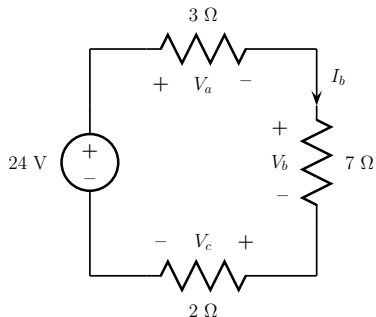


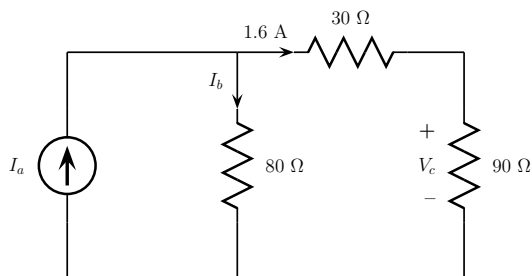
Preparation for Circuits

Concept Questions: Kirchoff's Laws

1. What are V_a , V_b , and V_c ?

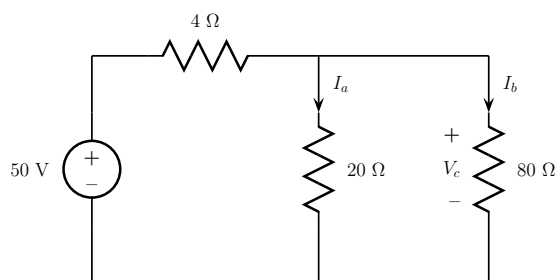


- (A) 6V, 14V, and 4V
(B) 4V, 6V, and -14V
(C) 6V, 14V, and -4V
(D) 4V, 6V, and 14V
2. Find the power delivered by the battery in the previous problem.
- (A) 12W
(B) 24W
(C) 36W
(D) 48W
3. What are I_a and V_c ?



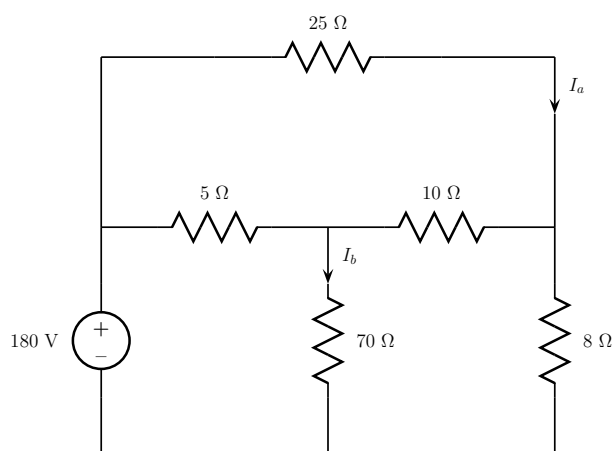
- (A) -4A and 192V
(B) -2.4A and 192V
(C) 2.4A and 144V
(D) 4A and 144V

4. What are I_a and V_c ?



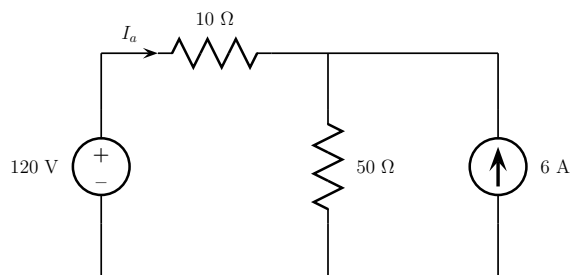
- (A) 0.5A and 10V
- (B) 2.0A and 10V
- (C) 2.0A and 40V
- (D) 0.5A and 40V

5. If I_a is 4 amps, what is I_b ?



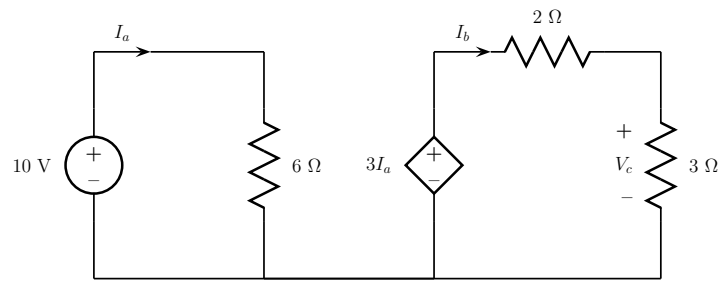
- (A) 10A
- (B) -6A
- (C) 4A
- (D) 2A

6. Use Kirchoff's laws and Ohm's law to find I_a :



- (A) -6A
- (B) -3A
- (C) 6A
- (D) 3A

7. Use Kirchoff's laws and Ohm's law to find V_c :



- (A) -5V
- (B) -3V
- (C) 5V
- (D) 3V