

Question 78528-06  
0.42-40%

In the circuit shown in figure 5, what is the current in the 8.00-Ohm resistor?

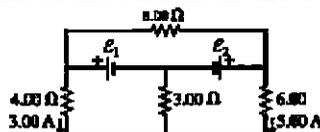


Figure 5

- (a) 11.25 A to the right  
 (b) 3.38 A to the left  
 (c) 11.25 A to the left  
 (d) 2.25 A to the right  
 (e) 2.25 A to the left

Question 78628-06  
0.27-23%

A number of 240-Ohms resistors are connected in parallel to a 120-V source. If the maximum current allowed in the circuit is 9 A, determine the largest number of resistors, which can be used in this circuit without exceeding the maximum current.

- (a) 9.  
 (b) 25.  
 (c) 36.  
 (d) 18.  
 (e) 34.

Question 78728-06  
0.44-35%

In figure 6, three identical light bulbs are connected to a battery. Which one of the following statements is CORRECT?

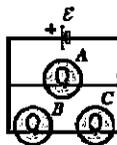


Figure 6

- (a) The smallest current passes through A.  
 (b) The current through all resistors is the same.  
 (c) The largest current passes through A.  
 (d) The largest current passes through B.  
 (e) The largest current passes through C.

28-7 The Ammeter and the Voltmeter

28-8 RC circuits

Question 78828-08  
0.48-50%

A capacitor in an RC circuit is charged to 85% of its maximum value in 2.4 s. What is the time constant of this circuit?

- (a) 2.4 s  
 (b) 1.9 s  
 (c) 1.3 s  
 (d) 2.9 s  
 (e) 0.9 s