

# Electric Circuits Practice Exercises

## Electric Current

1. A current of  $3.60\text{A}$  flows for  $15.3\text{ s}$  through a conductor. Calculate the number of electrons that pass through a point of the conductor during this time.
2. How long would it take  $2.0 \times 10^{20}$  electrons to pass through a point in a conductor if the current was  $10.0\text{A}$ ?
3. Calculate the current through a conductor if a charge of  $5.60\text{C}$  passes through a point in the conductor in  $15.4\text{s}$ .
4. What potential difference is required across a conductor to produce a current of  $8.00\text{A}$  if there is a resistance in the conductor of  $12.0\Omega$ ?
5. What is the heat energy produced in a conductor in  $25.0\text{s}$  if there is a current of  $11.0\text{A}$  and a resistance in the conductor of  $7.20\Omega$ ?
6. A particular conductor produces  $1.50 \times 10^2\text{ J}$  of heat in  $5.50\text{ s}$ . If the current through the conductor is  $10.0\text{A}$ , what is the resistance of the conductor?
7. What is the current through a  $4.00 \times 10^2\text{ W}$  electric appliance when it is connected to a  $1.20 \times 10^2\text{ V}$  power line?
8. a) When an electric appliance is connected to a  $1.20 \times 10^2\text{ V}$  power line, there is a current through the appliance of  $18.3\text{A}$ . What is the resistance of the appliance?  
b) What is the average amount of energy given to each electron by the power line?
9. a) What potential difference is required across an electrical appliance to produce a current of  $20.0\text{A}$  when there is a resistance in the appliance of  $6.00\Omega$ ?  
b) How many electrons pass through the electrical appliance every minute?

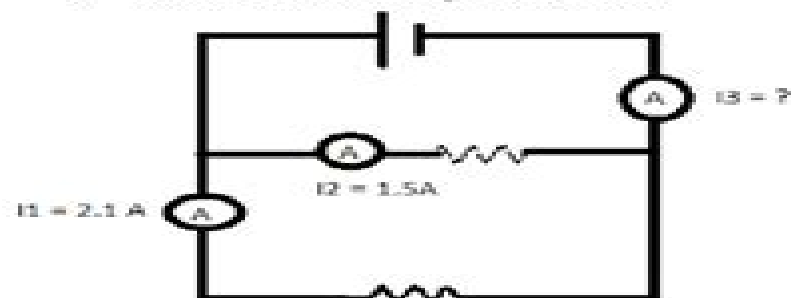
10. If electricity cost  $\$0.060$  per kilowatt hour, what does it cost to operate a  $1.0 \times 10^3\text{ W}$  appliance for  $5.0\text{h}$ ?
11. A student forgets to turn off a  $6.00 \times 10^2\text{ W}$  block heater of a car when the weather turns warm. If  $14\text{ h}$  goes by before he shuts it off, how much energy is used by the heater?
12. A  $45\text{ kg}$  object is lifted vertically at a constant speed to a height of  $9.0\text{ m}$  by a  $7.5 \times 10^2\text{ W}$  electric motor. If this motor is  $25\%$  efficient in converting electric energy to mechanical energy, how long does the motor take to lift the object?

## Electric Circuits

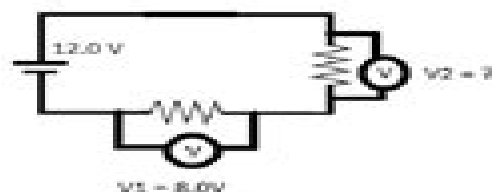
1. What are the values for  $I_2$  and  $I_3$  in the circuit?



2. What is the value of  $I_3$  in the circuit?



3. What is the value of  $V_2$  in the circuit?



# Conceptual Physics 35 Electric Circuits Exercises Answers

**Alfred University**



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**Children, and Adolescents** Hugh D. Allen,David J. Driscoll,Robert E. Shaddy,Timothy F. Feltes,2013-05-30 This 8th Edition of Moss and Adams Heart Disease in Infants Children and Adolescents Including the Fetus and Young Adult provides updated and useful information from leading experts in pediatric cardiology Added chapters and a companion web site that includes the full text with bonus question and answer sections make this Moss and Adams edition a valuable resource for those who care for infants children adolescents young adults and fetuses with heart disease Features Access to online questions similar to those on the pediatric cardiology board examination to prepare you for certification or recertification Leading international experts provide state of the art diagnostic and interventional techniques to keep you abreast of the latest advances in treatment of young patients Chapters on quality of life quality and safety pharmacology and research design add to this well respected text     **British Books in Print** ,1970     *Current Index to Journals in Education* ,2001     **NTA JEE**

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