

Name: _____

Skill Sheet 20.1

Parallel and Series Circuits

There are two major types of electrical circuits: series and parallel. In a series circuit, current follows only one path. In a parallel circuit, the current has two or more possible paths. In both types of circuits, the current travels from the positive end of the battery toward the negative end. The amount of energy used by a circuit (series or parallel) must equal the energy supplied by the battery. In this way, electrical circuits follow the law of conservation of energy. Understanding these facts will help you solve problems that deal with series and parallel circuits.

1. Solving series circuit problems

Now it is time for you to test your knowledge of series and parallel circuits by answering the questions below. You will have to use Ohm's law to solve many of the problems, so remember:

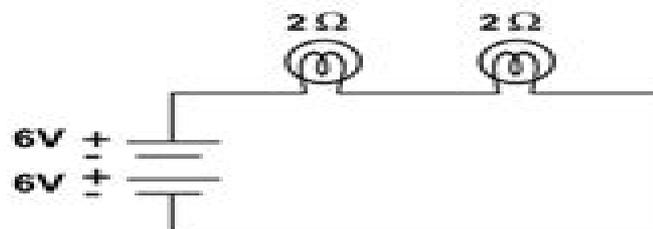
$$\text{Current (amps)} = \frac{\text{Voltage (volts)}}{\text{Resistance (ohms)}}$$

Some questions ask you to calculate a *voltage drop*. We often say that each resistor creates a separate voltage drop. As current flows along a series circuit, each resistor uses up some energy. As a result, the voltage gets lower after each resistor. If you know the current in the circuit and the resistance of a particular resistor, you can calculate the voltage drop using Ohm's law.

$$\text{Voltage drop (volts)} = \text{Current (amps)} \times \text{Resistance of one resistor (ohms)}$$

1. Use the series circuit pictured at right to answer questions a-e below.

a. What is the total voltage of the circuit?



b. What is the total resistance of the circuit?

c. What is the current flowing through the circuit?

d. What is the voltage drop across each light bulb? (Remember that voltage drop is calculated by multiplying current in the circuit by the resistance of a particular resistor: $V = IR$.)

e. Draw the path of the current flow on the diagram.

Series And Parallel Circuits Answer Key

Robert L. Boylestad



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Scientifica Essentials Peter Ellis, Derek McMonagle, 2004 Bring your science lessons to life with Scientifica Providing just the right proportion of reading versus doing these engaging resources are differentiated to support and challenge pupils of varying abilities

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Electricity and Magnetism, 2005 *Networks and Systems* Ashfaq Husain, This book is intended to serve as a textbook for BE B Tech students of Electrical Electronics Computer Instrumentation Control and communication Engineering It will also serve as a text reference for the students of diploma in Engineering AMIE GATE UPSC Engineering services IAS candidate would also find the book extremely useful Subject matter in each chapter developed systematically from first principles Written in a very simple language Simple and clear explanation of concepts Large number of carefully selected worked examples Most simplified methods used Step by step procedures given for solving problems Ideally suited for self study

Alternating currents, by F. Bedell and A.C. Crehore Frederick Bedell, 1893

The Fundamental Theory of Electrical Engineering Arthur Lemuel Albert, 1930

Experiments in Electronic Fundamentals David Buchla, 1994

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California Science, 2008 Science stimulates curiosity and student inquiry integrates

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College Algebra and Trigonometry Paul A White,1968

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