



## Parallel Circuits

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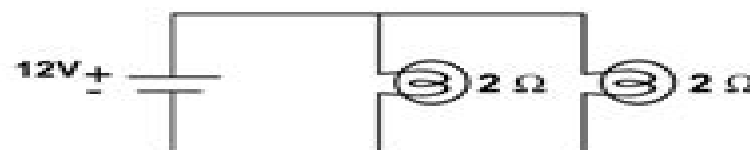
A parallel circuit has at least one point where the circuit divides, creating more than one path for current. Each path is called a branch. The current through a branch is called branch current. If current flows into a branch in a circuit, the same amount of current must flow out again. This rule is known as **Kirchoff's current law**.

Because each branch in a parallel circuit has its own path to the battery, the voltage across each branch is equal to the battery's voltage. If you know the resistance and voltage of a branch you can calculate the current with Ohm's Law ( $I = V/R$ ).

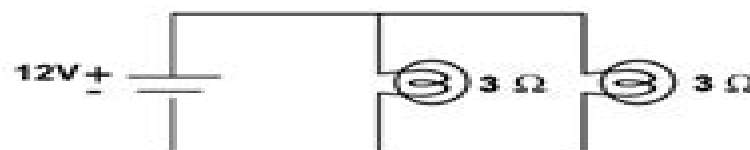
### PRACTICE 1



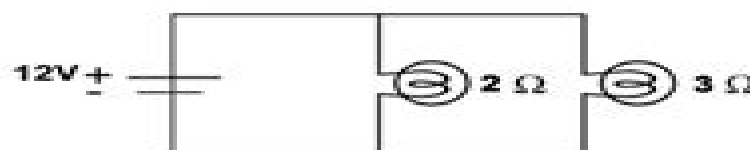
1. Use the parallel circuit pictured right to answer questions (a) - (d).
  - a. What is the voltage across each bulb?
  - b. What is the current in each branch?
  - c. What is the total current provided by the battery?
  - d. Use the total current and the total voltage to calculate the total resistance of the circuit.



2. Use the parallel circuit pictured right to answer questions (a) - (d).
  - a. What is the voltage across each bulb?
  - b. What is the current in each branch?
  - c. What is the total current provided by the battery?
  - d. Use the total current and the total voltage to calculate the total resistance of the circuit.



3. Use the parallel circuit pictured right to answer questions (a) - (d).
  - a. What is the voltage across each resistor?
  - b. What is the current in each branch?
  - c. What is the total current provided by the battery?



- d. Use the total current and the total voltage to calculate the total resistance of the circuit.

4. Use the parallel circuit pictured right to answer questions (a) - (c).
  - a. What is the voltage across each resistor?
  - b. What is the current in each branch?
  - c. What is the total current provided by the battery?



# Practice Problems With Parallel Circuits Answer Key

**Liying Dong**



## **Practice Problems With Parallel Circuits Answer Key:**

**Electronics Technology Fundamentals** Robert T. Paynter, B. J. Toby Boydell, 2005 Electronics Technology Fundamentals is a complete introduction to the increasingly complex study of electronics This text presents do circuits ac circuits and devices in one condensed easy to read volume allowing these fundamentals to be covered in less time than required by traditional texts Hailed by instructors as an excellent innovative approach to teaching the fundamentals the text presents all of the same vital information offered in traditional books while implementing the engaging clear writing style and superb learning tools developed by seasoned authors Robert T Paynter and B J Toby Boydell The following features are NEW to this Second Edition Full 4 color format improving clarity and visual appeal Chapter opening vignettes helping the reader to connect the chapter material to real world circuits and applications New sections introducing the reader to component testing and fault symptoms Many newer components and component packages appearing throughout New margin notes introducing applications of principles and circuits New margin notes demonstrating calculator key sequences for many of the problem solving examples [Engineering Physics Questions and Answers PDF](#) Arshad Iqbal, The Engineering Physics Quiz Questions and Answers PDF Engineering Physics Competitive Exam Questions Chapter 1 36 Practice Tests Class 8 12 Physics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Engineering Physics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Engineering Physics Quiz PDF book helps to practice test questions from exam prep notes The Engineering Physics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Engineering Physics Objective Questions and Answers PDF Free Download chapter 1 a book covers solved common questions and answers on chapters Alternating fields and currents astronomical data capacitors and capacitance circuit theory conservation of energy coulomb s law current produced magnetic field electric potential energy equilibrium indeterminate structures finding electric field first law of thermodynamics fluid statics and dynamics friction drag and centripetal force fundamental constants of physics geometric optics inductance kinetic energy longitudinal waves magnetic force models of magnetism newton s law of motion Newtonian gravitation Ohm s law optical diffraction optical interference physics and measurement properties of common elements rotational motion second law of thermodynamics simple harmonic motion special relativity straight line motion transverse waves two and three dimensional motion vector quantities work kinetic energy theorem tests for college and university revision guide Physics Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Engineering Physics Interview Questions Chapter 1 36 PDF book includes high school question papers to review practice tests for exams Engineering Physics Practice Tests a textbook s revision guide with chapters tests for NEET Jobs Entry Level competitive exam Engineering Physics Questions Bank Chapter 1 36 PDF book covers problem solving exam tests from physics textbook

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