

Name: Olivia Hendriks

Date: July 22nd, 2020

## Student Exploration: Advanced Circuits

[Note to teachers and students: This Gizmo was designed as a follow-up to the Circuits Gizmo. We recommend doing that activity before trying this one.]

**Vocabulary:** circuit breaker, equivalent resistance, fuse, Ohm's law, parallel circuit, series circuit

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)



1. What is the mathematical relationship between current, resistance, and voltage?

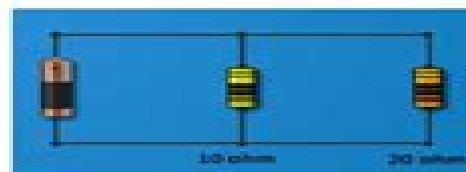
$I = V/R$

2. What is the **equivalent resistance** (total resistance) of the **series circuit** shown at left? 130 ohm

### Gizmo Warm-up

In the Circuits Gizmo, you learned how to use **Ohm's law**:  $I = V/R$ , to determine the current in parallel and series circuits. But how do you find the resistance and current in a complex circuit that has both series and parallel elements?

First, review how to find the equivalent resistance of a **parallel circuit**. Use the *Advanced Circuits Gizmo* to construct the parallel circuit shown at right, using a 10-ohm and a 20-ohm resistor. Set the **Selected battery voltage** to 20 volts.



1. Move the **Ammeter** next to the battery. What is the current? 3.00 amperes
2. Based on Ohm's law, what is the equivalent resistance in the circuit? 6.7 ohm
3. You can calculate the equivalent resistance of a parallel circuit using the following equation:

$$\frac{1}{R_{\text{Total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}$$

Based on this equation, what is the equivalent resistance of the circuit? 6.7 ohm

# Explore Learning Circuits Answer Key

**Barker, Bradley S.,Nugent,  
Gwen,Grandgenett, Neal,Adamchuk,  
Viacheslav I.**

## **Explore Learning Circuits Answer Key:**

**Teaching Primary Years** Katherine Main, 2020-07-16 The primary years are recognised as a distinct period in a child's development with significant consequences for ongoing educational success. During this critical time, formal schooling and the associated activities introduce children to new and extended social roles where they learn to cooperate and collaborate with their peers and adults. Children also begin to develop a sense of themselves and their competence in a range of domains including social, academic, sport and music. This edited collection provides specialist guidance in developing curriculum, pedagogy and assessment to meet the needs of primary years children. The text begins by exploring the unique characteristics of this age group including cognitive, social, emotional and physical development. It considers the expectations of teachers including ethical and legal issues and guidance on how to develop positive learning spaces and collaborative approaches. There is an exploration of the needs of the child including facilitating transition from the early years and into secondary school. The text then considers the curriculum in depth including language and literacy, mathematics and numeracy, science and technology, health and physical education and the humanities. A focus on some of the key challenges in primary education brings the book to its conclusion including effectively harnessing digital technology, developing age appropriate pedagogies, practising differentiated learning and effective assessment. Rich with insights from experts in the field and featuring case studies and practical examples throughout, this is a key resource for both pre-service and in-service primary teachers. Other professionals working with primary years students and parents will also benefit from engaging with this book.

**Quantum Machine Learning** Pethuru Raj, Houbing Herbert Song, Dac-Nhuong Le, Narayan Vyas, 2024-08-05 Quantum computing has shown a potential to tackle specific types of problems, especially those involving a daunting number of variables at an exponentially faster rate compared to classical computers. This volume focuses on quantum variants of machine learning algorithms such as quantum neural networks, quantum reinforcement learning, quantum principal component analysis, quantum support vectors, quantum Boltzmann machines and many more.

**Abstracts of Instructional Materials in Vocational and Technical Education**, 1974 **Robots in K-12 Education: A New Technology for Learning** Barker, Bradley S., Nugent, Gwen, Grandgenett, Neal, Adamchuk, Viacheslav I., 2012-02-29 This book explores the theory and practice of educational robotics in the K-12 formal and informal educational settings, providing empirical research supporting the use of robotics for STEM learning. Provided by publisher.

**The Analysis and Design of Linear Circuits** Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2023-04-25 THE ANALYSIS AND DESIGN OF LINEAR CIRCUITS Textbook covering the fundamentals of circuit analysis and design, now with additional examples, exercises and problems. The Analysis and Design of Linear Circuits 10th Edition taps into engineering students' desire to explore, create and put their learning into practice by presenting linear circuit theory with an emphasis on circuit analysis and how to evaluate competing designs. The text integrates active and passive linear circuits, allowing students to understand and design a wide range of

circuits solve analytical problems and devise solutions to problems The authors use both phasors and Laplace techniques for AC circuits enabling better understanding of frequency response filters AC power and transformers The authors have increased the integration of MATLAB and Multisim in the text and revised content to be up to date with technology when appropriate The text uses a structured pedagogy where objectives are stated in each chapter opener and examples and exercises are developed so that the students achieve mastery of each objective The available problems revisit each objective and a suite of problems of increasing complexity task the students to check their understanding Topics covered in The Analysis and Design of Linear Circuits 10th Edition include Basic circuit analysis including element connection combined and equivalent circuits voltage and current division and circuit reduction Circuit analysis techniques including node voltage and mesh current analysis linearity properties maximum signal transfer and interface circuit design Signal waveforms including the step exponential and sinusoidal waveforms composite waveforms and waveform partial descriptors Laplace transforms including signal waveforms and transforms basic properties and pairs and pole zero and Bode diagrams Network functions including network functions of one and two port circuits impulse response step response and sinusoidal response An appendix that lists typical RLC component values and tolerances along with a number of reference tables and OP AMP building blocks that are foundational for analysis and design With an overarching goal of instilling smart judgment surrounding design problems and innovative solutions The Analysis and Design of Linear Circuits 10th Edition provides inspiration and motivation alongside an essential knowledge base The text is designed for two semesters and is complemented with robust supplementary material to enhance various pedagogical approaches including an Instructors Manual which features an update on how to use the book to complement the 2022 23 ABET accreditation criteria 73 lesson outlines using the new edition additional Instructor Problems and a Solutions Manual These resources can be found on the companion website <https://bcs.wiley.com/he/bcs/books/action/index/bcsId/12533/itemId/1119913020>

*Outstanding Differentiation for Learning in the Classroom* Jayne Bartlett, 2015-09-16 One of the key features of an outstanding lesson is that all learners make progress All learners are different and teachers must differentiate according to the individual pupil and their individual learning needs to achieve outstanding progress *Outstanding Differentiation for Learning in the Classroom* is written with the class teacher in mind and demonstrates how differentiation can be used to enhance and support all aspects of the learning process Including chapters on embedding differentiation during each phase of the lesson assessment and questioning techniques this book will help you to use differentiation effectively to produce outstanding results With a strong focus on practical strategies to help you meaningfully apply differentiation in the classroom this book covers what differentiation actually means and why it should be applied in the classroom sequencing and planning for learning with an overview of the learning cycle practical teaching strategies and effective techniques to use in the classroom how to structure and apply differentiation practices in your classroom department and school A vital starting point and

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Essential Pathways and Circuits of Autism Pathogenesis Gül Dölen, Mustafa Sahin, 2016-08-15 The Centers for Disease Control and Prevention estimate that 1 in 68 children in the United States is afflicted with autism spectrum disorders ASD yet at this time there is no cure for the disease Autism is characterized by delays in the development of many basic skills most notably the ability to socialize and adapt to novelty The condition is typically identified in children around 3 years of age however the high heritability of autism suggests that the disease process begins at conception The identification of over 500 ASD risk genes has enabled the molecular genetic dissection of the pathogenesis of the disease in model organisms such as mice Despite the genetic heterogeneity of ASD etiology converging evidence suggests that these disparate genetic lesions may result in the disruption of a limited number of key biochemical pathways or circuits Classification of patients into groups by pathogenic rather than etiological categories will likely aid future therapeutic development and clinical trials In this set of papers we explore the existing evidence supporting this view Specifically we focus on biochemical cascades such as mTOR and ERK signaling the mRNA network bound by FMRP and UBE3A dorsal and ventral striatal circuits cerebellar circuits hypothalamic projections as well as prefrontal and anterior cingulate cortical circuits Special attention will be given to studies that demonstrate the necessity and or sufficiency of genetic disruptions e g by molecular deletion and or replacement in these pathways and circuits for producing characteristic behavioral features of autism Necessarily these papers will be heavily weighted towards basic

mechanisms elucidated in animal models but may also include investigations in patients      Electronics for Computer Technology David Terrell, 2003 New from Delmar Learning Electronics for Computer Technology is perfect for today's career minded students as well as anyone with a keen interest in troubleshooting computer devices components and electrical circuits The first chapter introduces system level topics including representative systems system notations functional hierarchies system connectivity and system level troubleshooting In subsequent chapters direct references are made to system applications in order to put each topic in the context of an overall system Some software programming topics are addressed yet emphasis throughout the book is on hardware including all of the physical parts of the computer plus various electronic components within the computer Electronic devices are also discussed along with an overview of digital electronics computers and telecommunications Readers will learn to apply system level troubleshooting techniques to localize the detailed troubleshooting effort Benefits new system level thinking and troubleshooting skills may be used to open doors to employment or as preparation for advanced study of modern industrial electronics robotics or other industrial control systems System Perspective features appear at strategic points illustrating how a device or circuit being discussed is actually used in a practical functional system such as a computer Circuit Exploration exercises are included in every chapter providing opportunities to gain hands on troubleshooting experience in a lab setting or circuit simulation environment step by step calculator sequences are provided whenever a new type of calculation is introduced minimizing the learning curve for novices CD includes pre created MultiSIM circuits and Textbook Edition of MultiSIM the behavior of components is discussed and explained in terms of Ohm's Law Kirchhoff's Law and basic circuit principles wherever practical making this book ideal for beginners numerical circ      *Primary Science for Trainee Teachers* Judith Roden, James Archer, 2014-09-23 With chapter sequencing following the new Curriculum this book supports trainee Primary school teachers to make use of the opportunities presented in the new National Curriculum for effective and engaging Science teaching Covering all of the areas of the new National Curriculum for primary science and offering insight into effective teaching it helps you connect what you need to teach to how it can be taught This comprehensive guide to teaching Primary Science will help you secure your subject knowledge understand how children learn about science and know how to plan and teach effective and inspiring science lessons Exploring opportunities in the new curriculum for creative and imaginative teaching it shows you how to capitalize on opportunities to teach Science in a way that sparks children's interest Includes the full National Curriculum Programme of Study for Science key stages 1 and 2 as a useful reference for trainee teachers Other books in this series include Primary Mathematics for Trainee Teachers and Primary English for Trainee Teachers

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