

Ch 26 HW

Due: 11:59pm on Wednesday, March 2, 2022

You will receive no credit for items you complete after the assignment is due. [Grading Policy](#)

Kirchhoff's Rules and Applying Them

Learning Goal:

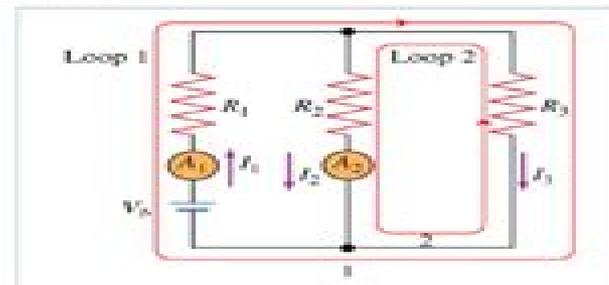
To understand the origins of both of Kirchhoff's rules and how to use them to solve a circuit problem.

This problem introduces Kirchhoff's two rules for circuits:

- **Kirchhoff's loop rule:** The sum of the voltage changes across the circuit elements forming any closed loop is zero.
- **Kirchhoff's junction rule:** The algebraic sum of the currents into (or out of) any junction in the circuit is zero.

The figure shows a circuit that illustrates the concept of loops, which are colored red and labeled loop 1 and loop 2. Loop 1 is the loop around the entire circuit, whereas loop 2 is the smaller loop on the right. To apply the loop rule you would add the voltage changes of all circuit elements around the chosen loop. The figure contains two junctions (where three or more wires meet)—they are at the ends of the resistor labeled R_2 . The battery supplies a constant voltage V_b , and the resistors are labeled with their resistances. The ammeters are ideal meters that read I_1 and I_2 respectively.

The direction of each loop and the direction of each current arrow that you draw on your own circuits are arbitrary. Just assign voltage drops consistently and sum both voltage drops and currents algebraically and you will get correct equations. If the actual current is in the opposite direction from your current arrow, your answer for that current will be negative. The direction of any loop is even less important: The equation obtained from a counterclockwise loop is the same as that from a clockwise loop except for a negative sign in front of every term (i.e., an inconsequential change in overall sign of the equation because it equals zero).



Part A

The junction rule describes the conservation of which quantity? Note that this rule applies only to circuits that are in a steady state.

Hint 1. At the junction

Think of the analogy with water flow. If a certain amount of water comes to a split in the pipe, what can you say (mathematically) about the sum of the three masses of water at this junction?

ANSWER:

- charge
- voltage
- resistance

Correct

Part B

Apply the junction rule to the junction labeled with the number 1 (at the bottom of the resistor of resistance R_2).

Answer in terms of given quantities, together with the meter readings I_1 and I_2 and the current I_3 .

Hint 1. Elements in series

The current through resistance R_2 is not labeled. You should recognize that the current I_1 passing through the ammeter also passes through resistance R_1 because there is no junction in between the resistor and the ammeter that could allow it to go elsewhere. Similarly, the current passing through the battery must be I_1 also. Circuit elements connected in a string like this are said to be in series and the same current must pass through each element. This fact greatly reduces the number of independent current values in any practical circuit.

Mastering Physics Answer Ch 20 Question 51

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Table of Contents Mastering Physics Answer Ch 20 Question 51

1. Understanding the eBook Mastering Physics Answer Ch 20 Question 51
 - The Rise of Digital Reading Mastering Physics Answer Ch 20 Question 51
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Answer Ch 20 Question 51
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastering Physics Answer Ch 20 Question 51
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Answer Ch 20 Question 51
 - Personalized Recommendations
 - Mastering Physics Answer Ch 20 Question 51 User Reviews and Ratings
 - Mastering Physics Answer Ch 20 Question 51 and Bestseller Lists

5. Accessing Mastering Physics Answer Ch 20 Question 51 Free and Paid eBooks
 - Mastering Physics Answer Ch 20 Question 51 Public Domain eBooks
 - Mastering Physics Answer Ch 20 Question 51 eBook Subscription Services
 - Mastering Physics Answer Ch 20 Question 51 Budget-Friendly Options
6. Navigating Mastering Physics Answer Ch 20 Question 51 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Physics Answer Ch 20 Question 51 Compatibility with Devices
 - Mastering Physics Answer Ch 20 Question 51 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Answer Ch 20 Question 51
 - Highlighting and Note-Taking Mastering Physics Answer Ch 20 Question 51
 - Interactive Elements Mastering Physics Answer Ch 20 Question 51
8. Staying Engaged with Mastering Physics Answer Ch 20 Question 51
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Answer Ch 20 Question 51
9. Balancing eBooks and Physical Books Mastering Physics Answer Ch 20 Question 51
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Answer Ch 20 Question 51
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mastering Physics Answer Ch 20 Question 51
 - Setting Reading Goals Mastering Physics Answer Ch 20 Question 51
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mastering Physics Answer Ch 20 Question 51
 - Fact-Checking eBook Content of Mastering Physics Answer Ch 20 Question 51
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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