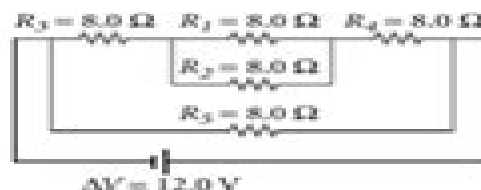


Holt Physics

Problem 20D**CURRENT IN AND POTENTIAL DIFFERENCE ACROSS A RESISTOR****PROBLEM**

For the circuit from the previous section's sample problem, determine the current in and potential difference across the $8.0\ \Omega$ resistor (R_4) in the figure below.

**REASONING**

First find the equivalent resistance of the circuit. From this, determine the total circuit current. Then rebuild the circuit in steps, calculating the current and potential difference for the equivalent resistance of each group until the current in and potential difference across the specified $8.0\ \Omega$ resistor are known.

SOLUTION**1. Determine the equivalent resistance of the circuit.**

The equivalent resistance, which was calculated in the sample problem of the previous section, is $5.9\ \Omega$.

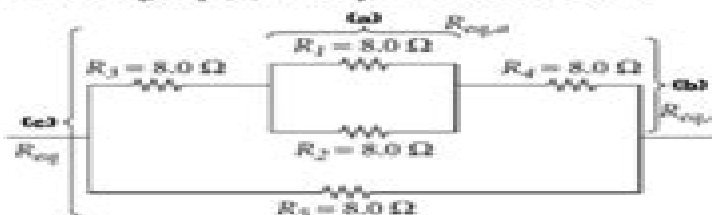
2. Calculate the total current in the circuit.

Substitute the potential difference and equivalent resistance in $\Delta V = IR$, and rearrange the equation to find the current delivered by the battery.

$$I = \frac{\Delta V}{R_{eq}} = \frac{(12.0\text{ V})}{(5.9\ \Omega)} = 2.0\text{ A}$$

3. Determine a path from the equivalent resistance found in step 1 to the specified resistor.

Review the path taken to find the equivalent resistance in the diagram below, and work backward through this path. The equivalent resistance for the entire circuit is the same as the equivalent resistance for group (c). The top resistors in group (c), in turn, form the equivalent resistance for group (b), and the rightmost resistor in group (b) is the specified $8.0\ \Omega$ resistor.



Holt Physics Problem 20

LL Leslie

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

Holt Physics Problem 20:

Holt Physics Raymond A. Serway, 2002 *Holt Physics*, 2001 *Readers' Guide to Periodical Literature*, 1922

Operations Research Problems Raul Poler, Josefa Mula, Manuel Díaz-Madroñero, Raquel Sanchis, 2025-03-03 This book now in its second edition provides a valuable compendium of problems as a reference for undergraduate and graduate students faculty researchers and practitioners of operations research and management science These problems can serve as a basis for the development or study of assignments and exams Also they can be useful as a guide for the first stage of the model formulation i e the definition of a problem The book is divided into 11 chapters that address the following topics linear programming integer programming nonlinear programming network modeling inventory theory queue theory tree decision game theory dynamic programming and Markov processes Included are a considerable number of statements of operations research applications for management decision making The book provides concise solutions to these problems although all problems are examined in depth All the problems are based on the research experience of the authors in real world companies and the teaching experience of the authors This second edition of the book has many new problems and solutions influenced by today s evolving industrial engineering management and decision making practices The book includes many new problems specifically designed to address today s business challenges The new edition offers readers the opportunity to tackle and analyse new problems inspired by real life scenarios Nuclear Science Abstracts, 1975-05 Social Work Constructivist Research Mary Katherine O'Connor, 2015-12-22 This is the first textbook to offer a clear concise articulation of the dimensions of constructivism relevant to social work practice and research Professor Rodwell recognizes the need to systematize a process of knowledge building and presents specific techniques to accomplish that while maintaining an interpretative stance with the focus on meaning Social work students will see that their basic way of engaging clients in an assessment and problem solving process is very much in keeping with constructivist research practice In addition to delineating the philosophical assumptions of constructivism this very practical text is geared to classroom use with chapters on research design rigor data collection data analysis research oversight and presentation of results Social Work Constructivist Research is divided into four sections that together should give the reader the intellectual and practical background necessary to understand and undertake rigorous constructivist inquiry The structure of this textbook is intended to provide the reader with sufficient information to competently confront all the design implementation and reporting elements of a constructivist inquiry process At the completion of all sections readers will know how the assumptions of constructivism differ from mainstream research primarily characterized by positivism or post positivism Readers will know how rigor expectations for research methods derived from different assumptions also differ They will know how to determine the feasibility of undertaking a constructivist inquiry when and where it is possible manage an emergent design and establish the trustworthiness and authenticity dimensions of a rigorous research effort For those interested in constructivist research

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