

## Practice Problems

5.1 Vectors  
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1. A car is driven 125.0 km due west, then 65.0 km due south. What is the magnitude of its displacement? Solve this problem both graphically and mathematically, and check your answers against each other.

$$R^2 = A^2 + B^2$$

$$R = \sqrt{A^2 + B^2}$$

$$= \sqrt{(65.0 \text{ km})^2 + (125.0 \text{ km})^2}$$

$$= 141 \text{ km}$$



2. Two shoppers walk from the door of the mall to their car, which is 250.0 m down a lane of cars, and then turn 90° to the right and walk an additional 60.0 m. What is the magnitude of the displacement of the shoppers' car from the mall door? Solve this problem both graphically and mathematically, and check your answers against each other.

$$R^2 = A^2 + B^2$$

$$R = \sqrt{A^2 + B^2}$$

$$= \sqrt{(250.0 \text{ m})^2 + (60.0 \text{ m})^2}$$

$$= 257 \text{ m}$$



3. A hiker walks 4.5 km in one direction, then makes a 45° turn to the right and walks another 6.4 km. What is the magnitude of her displacement?

$$R^2 = A^2 + B^2 - 2AB \cos \theta$$

$$R = \sqrt{A^2 + B^2 - 2AB \cos \theta}$$

$$= \sqrt{(4.5 \text{ km})^2 + (6.4 \text{ km})^2 - 2(4.5 \text{ km})(6.4 \text{ km})(\cos 135^\circ)}$$

$$= 1.0 \times 10^1 \text{ km}$$

4. An ant is crawling on the sidewalk. At one moment, it is moving south a distance of 5.0 mm. It then turns southwest and crawls 4.0 mm. What is the magnitude of the ant's displacement?

$$R^2 = A^2 + B^2 - 2AB \cos \theta$$

$$R = \sqrt{A^2 + B^2 - 2AB \cos \theta}$$

$$= \sqrt{(5.0 \text{ mm})^2 + (4.0 \text{ mm})^2 - 2(5.0 \text{ mm})(4.0 \text{ mm})(\cos 135^\circ)}$$

$$= 6.3 \text{ mm}$$

# Chapter 5 Physics Study Guide Answers

**Sharon Ferrett**

## **Chapter 5 Physics Study Guide Answers:**

Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGraw and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions     **ASVAB Study Guide 2025-2026** Jake Nolan, 2024-12-24 Are you ready to conquer the ASVAB and unlock new career opportunities Whether you're aiming for a career in the military or seeking to enhance your problem solving skills this comprehensive guide is your key to success Packed with expertly crafted practice questions detailed explanations and essential strategies this resource is designed to help you prepare for the ASVAB with confidence and precision This book covers all the critical areas of the ASVAB exam from Arithmetic Reasoning and Mathematics Knowledge to Mechanical Comprehension and Electronics Information Each section is broken down into manageable lessons that focus on the core concepts you need to master ensuring you're well prepared for every question type With clear step by step instructions and tips for tackling even the toughest problems you'll feel empowered to take on the test and achieve your best score What sets this guide apart is its emphasis on practical application It's not just about memorizing facts it's about learning how to think critically and solve problems efficiently under pressure Through real world examples practice tests and in depth explanations you'll gain the skills to approach each section of the ASVAB with ease Whether you're struggling with algebraic equations mechanical reasoning or understanding complex diagrams this book provides the tools you need to improve your performance and boost your confidence The key to success is practice and this book delivers with hundreds of ASVAB style questions and answers You'll be able to test your knowledge track your progress and identify areas for improvement Plus the detailed answer explanations will help you understand why each answer is correct allowing you to learn from your mistakes and avoid them in the future Perfect for students job seekers and anyone looking to take the ASVAB this guide is designed to help you succeed Whether you're just starting your preparation or looking to fine tune your skills this book will help you reach your full potential Don't leave your future to chance take control of your ASVAB preparation today and start building the foundation for your success tomorrow

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