

## 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?

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

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

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

$$= 8.3 \text{ mm}$$

# Physics Chapter 5 Study Guide Answers

**RS Peters**



## Physics Chapter 5 Study Guide Answers:

*Barron's Science 360: A Complete Study Guide to Physics with Online Practice* Barron's Educational Series, Kenneth Rideout, 2021-09-07 Barron's Math 360 Physics is your complete go to guide for everything physics This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building blocks of physics and build as you go Topics include motion forces electricity magnetism and introduction to nuclear physics and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come

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