

The vector  $A$  (see Fig. 1-1) can be reconstructed from the components  $a_x = 18.4$  and  $a_y = 13.8$ .

$$A = \sqrt{18.4^2 + 13.8^2} = 23 \quad \text{and} \quad \theta = \tan^{-1} \frac{13.8}{18.4} = 37^\circ$$

**1-1** Diagram the vector  $C = 47 \angle 193^\circ$  and write the components.

**Solution:** The components are  $c_x = 47 \cos 193^\circ = -45.8$  and  $c_y = 47 \sin 193^\circ = -10.6$ .

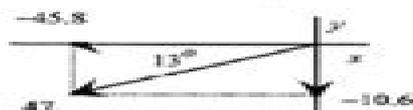


Fig. 1-3

Taking the sine or cosine of the  $193^\circ$  angle will produce the appropriate negative numbers, but drawing a figure and using the principle angle is a better procedure. Less mistakes are made from figures than from the readout of calculators. When the vector and its components are drawn on the coordinate system there can be no mistake that 45.8 and 10.6 are both negative.

### Unit Vectors in Two Dimensions

The use of unit vectors simplifies the mathematical operations on vectors. In two dimensions **unit vectors** are vectors of unit value directed in the  $+x$  and  $+y$  directions.



Fig. 1-4

The vector  $A$  (Fig. 1-1) would be written as  $A = 18.4i + 13.8j$  and  $C$  (problem 1-1) would be written as  $C = -45.8i - 10.6j$

**1-2** Add the vectors  $A$  and  $C$ .

**Solution:** The addition of  $A$  and  $C$  is now accomplished by adding the components

$$S = A + C = -27.4i + 3.2j$$



**1-3** Subtract  $C$  from  $A$ .

**Solution:**  $T = A - C = 64.2i + 24.4j$

# Solved Problems In Physics

**L Cohen**



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## **Table of Contents Solved Problems In Physics**

1. Understanding the eBook Solved Problems In Physics
  - The Rise of Digital Reading Solved Problems In Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying Solved Problems In Physics
  - 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 Solved Problems In Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solved Problems In Physics
  - Personalized Recommendations
  - Solved Problems In Physics User Reviews and Ratings
  - Solved Problems In Physics and Bestseller Lists
5. Accessing Solved Problems In Physics Free and Paid eBooks
  - Solved Problems In Physics Public Domain eBooks
  - Solved Problems In Physics eBook Subscription Services

- Solved Problems In Physics Budget-Friendly Options
- 6. Navigating Solved Problems In Physics eBook Formats
  - ePub, PDF, MOBI, and More
  - Solved Problems In Physics Compatibility with Devices
  - Solved Problems In Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solved Problems In Physics
  - Highlighting and Note-Taking Solved Problems In Physics
  - Interactive Elements Solved Problems In Physics
- 8. Staying Engaged with Solved Problems In Physics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solved Problems In Physics
- 9. Balancing eBooks and Physical Books Solved Problems In Physics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solved Problems In Physics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solved Problems In Physics
  - Setting Reading Goals Solved Problems In Physics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solved Problems In Physics
  - Fact-Checking eBook Content of Solved Problems In Physics
  - 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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