

### PROBLEM 2.21

Determine the  $x$  and  $y$  components of each of the forces shown.

### SOLUTION

Compute the following distances:

$$OA = \sqrt{(84)^2 + (80)^2} \\ = 116 \text{ in.}$$

$$OB = \sqrt{(28)^2 + (96)^2} \\ = 100 \text{ in.}$$

$$OC = \sqrt{(48)^2 + (90)^2} \\ = 102 \text{ in.}$$

29-lb Force:

$$F_x = +(29 \text{ lb}) \frac{84}{116}$$

$$F_y = +(29 \text{ lb}) \frac{80}{116}$$

50-lb Force:

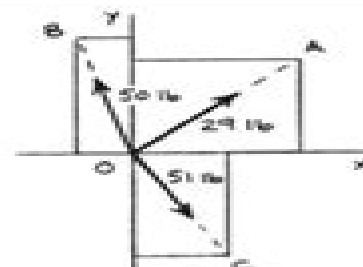
$$F_x = -(50 \text{ lb}) \frac{28}{100}$$

$$F_y = +(50 \text{ lb}) \frac{96}{100}$$

51-lb Force:

$$F_x = +(51 \text{ lb}) \frac{48}{102}$$

$$F_y = -(51 \text{ lb}) \frac{90}{102}$$



$$F_x = +21.0 \text{ lb} \quad \blacktriangleleft$$

$$F_y = +20.0 \text{ lb} \quad \blacktriangleleft$$

$$F_x = -14.00 \text{ lb} \quad \blacktriangleleft$$

$$F_y = +48.0 \text{ lb} \quad \blacktriangleleft$$

$$F_x = +24.0 \text{ lb} \quad \blacktriangleleft$$

$$F_y = -45.0 \text{ lb} \quad \blacktriangleleft$$

# Vector Mechanics Solution Manual 7th Edition Beer

**Lingjun Ying**



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## **Table of Contents Vector Mechanics Solution Manual 7th Edition Beer**

1. Understanding the eBook Vector Mechanics Solution Manual 7th Edition Beer
  - The Rise of Digital Reading Vector Mechanics Solution Manual 7th Edition Beer
  - Advantages of eBooks Over Traditional Books
2. Identifying Vector Mechanics Solution Manual 7th Edition Beer
  - 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 Vector Mechanics Solution Manual 7th Edition Beer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Mechanics Solution Manual 7th Edition Beer
  - Personalized Recommendations
  - Vector Mechanics Solution Manual 7th Edition Beer User Reviews and Ratings
  - Vector Mechanics Solution Manual 7th Edition Beer and Bestseller Lists
5. Accessing Vector Mechanics Solution Manual 7th Edition Beer Free and Paid eBooks

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