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"2-24. If the resultant force \mathbf{F}_R is directed along a line measured 75" elockwise from the positive x axis and the magnitude of \mathbf{F}_2 is to be a minimum, determine the magnitudes of \mathbf{F}_R and \mathbf{F}_2 and the angle $\theta = 90^\circ$.



This problem can be solved by adding the forces successively, using the parallelogram law of addition, shown in Fig. a. Two triangular force diagrams, shown in Figs. b and c, can be derived from the parallelograms. For F₁ to be minimum, it must be perpendicular to the resultant force's line of action. Thus,

$$\theta = 90^{\circ} - 75^{\circ} = 15^{\circ}$$

Acres

Referring to Fig. b., F' and or can be determined.

$$F' = \sqrt{4^2 + 5^2} = 6.403 \text{ kN}$$

 $\tan \alpha = \frac{3}{4}$ $\alpha = 51.34^\circ$

Using the results for θ , α , and F', F_R and F_2 can be determined by referring to Fig. c.

$$F_2 = 6.403\cos(15^\circ + 51.43^\circ) = 2.57 \text{ kN}$$

 $F_B = 6.403\sin(15^\circ + 51.43^\circ) = 5.86 \text{ kN}$

Ame







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Table of Contents Solution Manual Engineering Mechanics Statics 12th

- 1. Understanding the eBook Solution Manual Engineering Mechanics Statics 12th
 - The Rise of Digital Reading Solution Manual Engineering Mechanics Statics 12th
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Solution Manual Engineering Mechanics Statics 12th
 - 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 Solution Manual Engineering Mechanics Statics 12th
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Solution Manual Engineering Mechanics Statics 12th
 - Personalized Recommendations
 - Solution Manual Engineering Mechanics Statics 12th User Reviews and Ratings

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