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2-34. If the magnitude of the resultant force acting on the eyebolt is 600 N and its direction measured clockwise from the positive x axis is $\theta = 30^\circ$, determine the magnitude of F_1 and the angle ϕ .



Rectangular Components: By referring to Figs. a and b, the x and y components of F_1 , F_2 , F_3 , and F_R can be written as

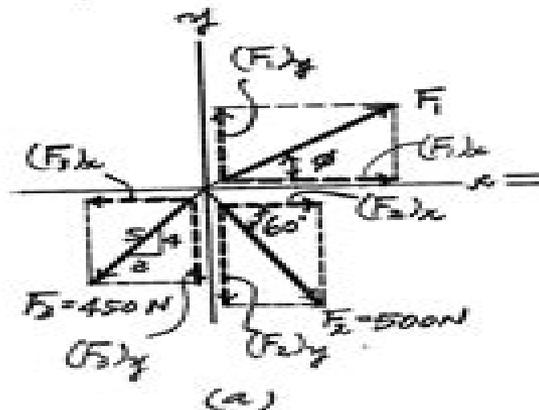
$$\begin{aligned} (F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\ (F_2)_x &= 500 \cos 60^\circ = 250 \text{ N} & (F_2)_y &= 500 \sin 60^\circ = 433.01 \text{ N} \\ (F_3)_x &= 450 \left(\frac{3}{5}\right) = 270 \text{ N} & (F_3)_y &= 450 \left(\frac{4}{5}\right) = 360 \text{ N} \\ (F_R)_x &= 600 \cos 30^\circ = 519.62 \text{ N} & (F_R)_y &= 600 \sin 30^\circ = 300 \text{ N} \end{aligned}$$

Resultant Forces: Summing the force components algebraically along the x and y axes,

$$\begin{aligned} \Sigma_x \Sigma (F_R)_x &= \Sigma F_x: & 519.62 &= F_1 \cos \phi + 250 - 270 & (1) \\ & & F_1 \cos \phi &= 509.62 \\ + \Sigma (F_R)_y &= \Sigma F_y: & -300 &= F_1 \sin \phi - 433.01 - 360 & (2) \\ & & F_1 \sin \phi &= -493.01 \end{aligned}$$

Solving Eqs. (1) and (2), yields

$$\phi = 42.4^\circ \quad F_1 = 731 \text{ N} \quad \text{Ans.}$$



Engineering Mechanics Statics 12th Solution Manual

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Table of Contents Engineering Mechanics Statics 12th Solution Manual

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

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