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*2–33. If $F_1 = 600\text{ N}$ and $\phi = 30^\circ$, determine the magnitude of the resultant force acting on the eyebolt and its direction measured clockwise from the positive x axis.

Rectangular Components: By referring to Fig. a , the x and y components of each force can be written as

$$\begin{aligned}(F_1)_x &= 600 \cos 30^\circ = 519.62\text{ N} & (F_1)_y &= 600 \sin 30^\circ = 300\text{ N} \\(F_2)_x &= 500 \cos 60^\circ = 250\text{ N} & (F_2)_y &= 500 \sin 60^\circ = 433.0\text{ N} \\(F_3)_x &= 450 \left(\frac{3}{5}\right) = 270\text{ N} & (F_3)_y &= 450 \left(\frac{4}{5}\right) = 360\text{ N}\end{aligned}$$

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

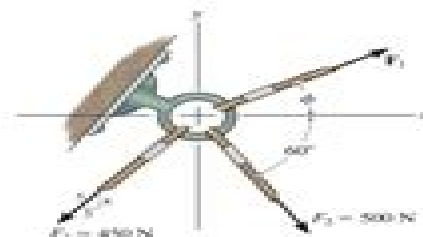
$$\begin{aligned}\sum_x \Sigma (F_R)_x &= \Sigma F_x; & (F_R)_x &= 519.62 + 250 - 270 = 499.62\text{ N} \rightarrow \\+ \uparrow \Sigma (F_R)_y &= \Sigma F_y; & (F_R)_y &= 300 - 433.01 - 360 = -493.01\text{ N} = 493.01\text{ N} \downarrow\end{aligned}$$

The magnitude of the resultant force F_R is

$$F_R = \sqrt{(F_R)_x^2 + (F_R)_y^2} = \sqrt{499.62^2 + 493.01^2} = 701.91\text{ N} = 702\text{ N}$$

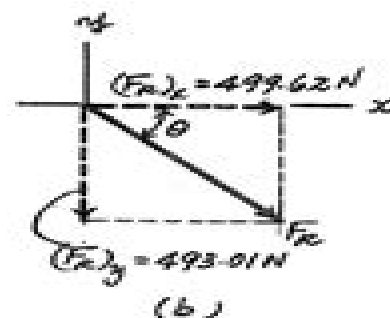
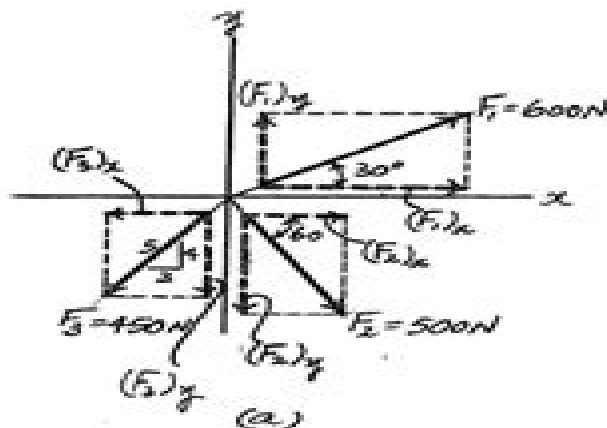
The direction angle θ of F_R , Fig. b , measured clockwise from the x axis, is

$$\theta = \tan^{-1} \left[\frac{(F_R)_y}{(F_R)_x} \right] = \tan^{-1} \left(\frac{-493.01}{499.62} \right) = 44.6^\circ$$



Ans.

Ans.



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Table of Contents Hibbeler Statics Solution Manual

1. Understanding the eBook Hibbeler Statics Solution Manual
 - The Rise of Digital Reading Hibbeler Statics Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Statics 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 Hibbeler Statics Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Statics Solution Manual
 - Personalized Recommendations

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