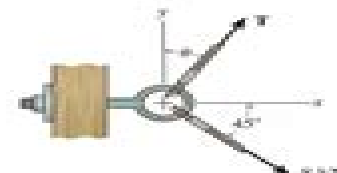


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2-3. If the magnitude of the resultant force is to be 9 kN directed along the positive x axis, determine the magnitude of force T acting on the eyebolt and its angle θ .



The parallelogram law of addition and the triangular rule are shown in Figs. a and b , respectively.

Applying the law of cosines to Fig. b ,

$$T = \sqrt{8^2 + 9^2 - 2(8)(9)\cos 45^\circ} \\ = 6.571 \text{ kN} = 6.57 \text{ kN}$$

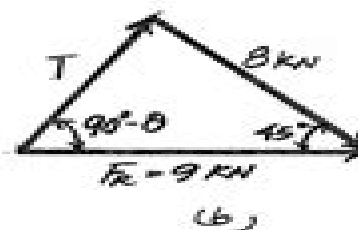
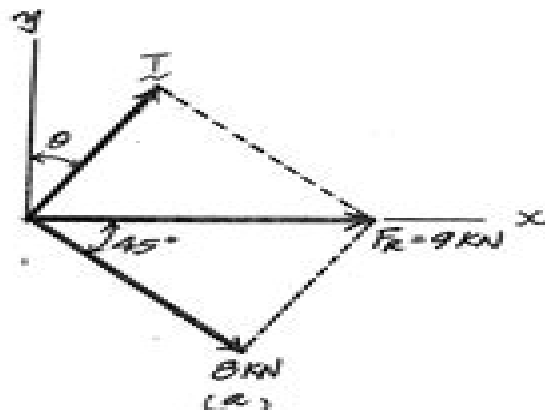
Ans.

Applying the law of sines to Fig. b and using this result, yields

$$\frac{\sin(90^\circ - \theta)}{8} = \frac{\sin 45^\circ}{6.571}$$

$$\theta = 30.6^\circ$$

Ans.



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Table of Contents Statics Hibbeler 12e Solutions Manual

1. Understanding the eBook Statics Hibbeler 12e Solutions Manual
 - The Rise of Digital Reading Statics Hibbeler 12e Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Statics Hibbeler 12e Solutions 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 Statics Hibbeler 12e Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statics Hibbeler 12e Solutions Manual
 - Personalized Recommendations
 - Statics Hibbeler 12e Solutions Manual User Reviews and Ratings
 - Statics Hibbeler 12e Solutions Manual and Bestseller Lists
5. Accessing Statics Hibbeler 12e Solutions Manual Free and Paid eBooks
 - Statics Hibbeler 12e Solutions Manual Public Domain eBooks
 - Statics Hibbeler 12e Solutions Manual eBook Subscription Services
 - Statics Hibbeler 12e Solutions Manual Budget-Friendly Options

6. Navigating Statics Hibbeler 12e Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Statics Hibbeler 12e Solutions Manual Compatibility with Devices
 - Statics Hibbeler 12e Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statics Hibbeler 12e Solutions Manual
 - Highlighting and Note-Taking Statics Hibbeler 12e Solutions Manual
 - Interactive Elements Statics Hibbeler 12e Solutions Manual
8. Staying Engaged with Statics Hibbeler 12e Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statics Hibbeler 12e Solutions Manual
9. Balancing eBooks and Physical Books Statics Hibbeler 12e Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statics Hibbeler 12e Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Statics Hibbeler 12e Solutions Manual
 - Setting Reading Goals Statics Hibbeler 12e Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Statics Hibbeler 12e Solutions Manual
 - Fact-Checking eBook Content of Statics Hibbeler 12e Solutions Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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