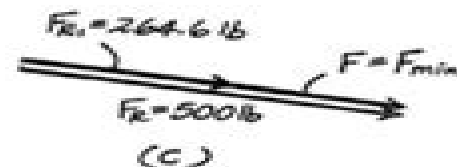
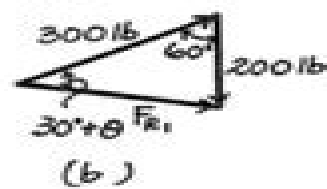
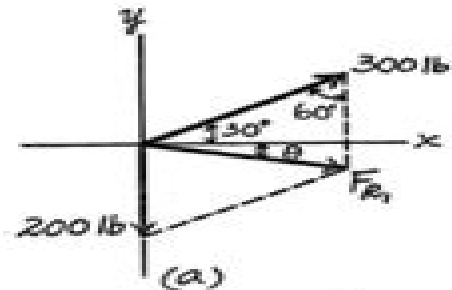


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2-36. Three chains act on the bracket such that they create a resultant force having a magnitude of 500 lb. If two of the chains are subjected to known forces, as shown, determine the angle θ of the third chain measured clockwise from the positive x axis, so that the magnitude of force \mathbf{F} in this chain is a minimum. All forces lie in the $x-y$ plane. What is the magnitude of \mathbf{F} ? Also: First find the resultant of the two known forces. Force \mathbf{F} acts in this direction.



Cosine law:

$$F_{R1} = \sqrt{300^2 + 200^2 - 2(300)(200)\cos 60^\circ} = 264.6 \text{ lb}$$

Sine law:

$$\frac{\sin 30^\circ}{200} = \frac{\sin \theta}{264.6} \quad \theta = 15.9^\circ \quad \text{Ans}$$

When \mathbf{F} is directed along F_{R1} , \mathbf{F} will be minimum to create the resultant force.

$$F_2 = F_{R1} + F$$

$$500 = 264.6 + F_{min}$$

$$F_{min} = 235 \text{ lb} \quad \text{Ans}$$

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S Ashworth



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Table of Contents Engineering Mechanics Statics 12th Edition Solutions Manual

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

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

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