

1-25.

Determine the magnitude of the resultant force and its direction, measured clockwise from the positive x axis.



Solution

Scalar Notation. Summing the force components along x and y axes by referring to Fig. *a*,

$$\Sigma (F_x)_x = \Sigma F_x; \quad (F_x)_x = 400 \cos 30^\circ + 800 \sin 45^\circ = 912.10 \text{ N} \quad \Sigma$$

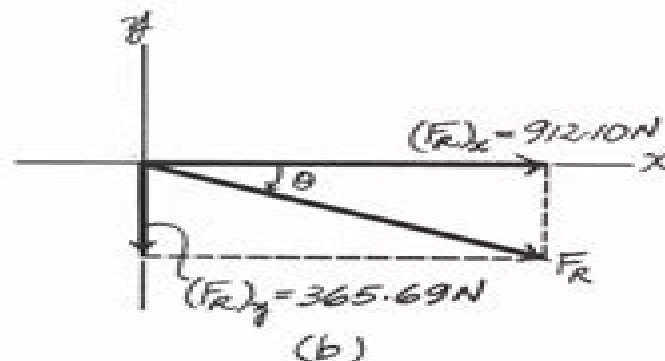
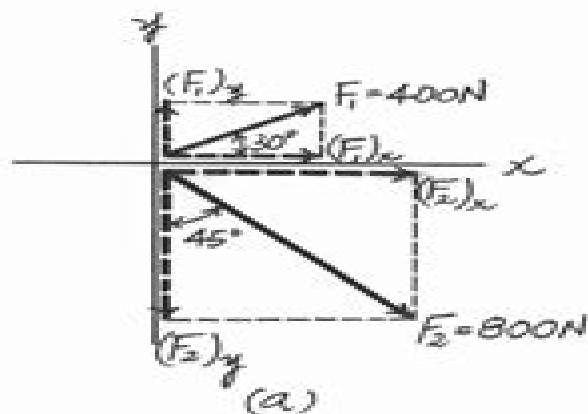
$$+\circlearrowleft (F_x)_y = \Sigma F_y; \quad (F_x)_y = 400 \sin 30^\circ - 800 \cos 45^\circ = -365.69 \text{ N} = 365.69 \text{ N} \quad \Sigma$$

Referring to Fig. *b*, the magnitude of the resultant force is

$$F_R = \sqrt{(F_x)_x^2 + (F_x)_y^2} = \sqrt{912.10^2 + 365.69^2} = 982.67 \text{ N} = 983 \text{ N} \quad \text{Ans.}$$

And its directional angle θ measured clockwise from the positive x axis is

$$\theta = \tan^{-1} \left(\frac{(F_x)_y}{(F_x)_x} \right) = \tan^{-1} \left(\frac{365.69}{912.10} \right) = 21.84^\circ = 21.8^\circ \quad \text{Ans.}$$



Ans:

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J. L. Meriam



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Table of Contents Mechanics For Engineers Statics 5th Edition Solutions Manual

1. Understanding the eBook Mechanics For Engineers Statics 5th Edition Solutions Manual
 - The Rise of Digital Reading Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics For Engineers Statics 5th 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 Mechanics For Engineers Statics 5th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Personalized Recommendations
 - Mechanics For Engineers Statics 5th Edition Solutions Manual User Reviews and Ratings
 - Mechanics For Engineers Statics 5th Edition Solutions Manual and Bestseller Lists
5. Accessing Mechanics For Engineers Statics 5th Edition Solutions Manual Free and Paid eBooks
 - Mechanics For Engineers Statics 5th Edition Solutions Manual Public Domain eBooks
 - Mechanics For Engineers Statics 5th Edition Solutions Manual eBook Subscription Services
 - Mechanics For Engineers Statics 5th Edition Solutions Manual Budget-Friendly Options
6. Navigating Mechanics For Engineers Statics 5th Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics For Engineers Statics 5th Edition Solutions Manual Compatibility with Devices
 - Mechanics For Engineers Statics 5th Edition Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Highlighting and Note-Taking Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Interactive Elements Mechanics For Engineers Statics 5th Edition Solutions Manual

8. Staying Engaged with Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics For Engineers Statics 5th Edition Solutions Manual
9. Balancing eBooks and Physical Books Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics For Engineers Statics 5th Edition Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Setting Reading Goals Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics For Engineers Statics 5th Edition Solutions Manual
 - Fact-Checking eBook Content of Mechanics For Engineers Statics 5th 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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