

\*2-24.

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



### Solution

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

$$\sum F_{x_1} = \Sigma F_x \quad \Sigma F_{x_1} = 200 \cos 45^\circ + 150 \cos 30^\circ = 313.116 \text{ N} \quad \Sigma$$

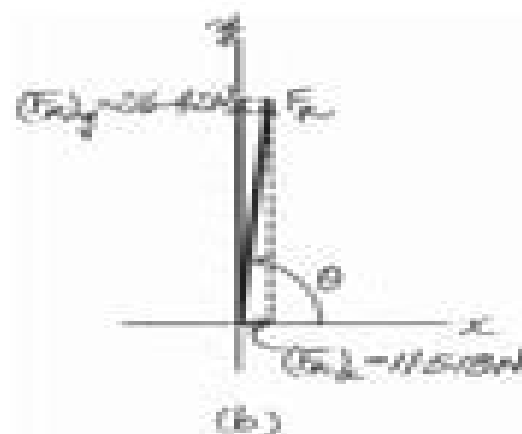
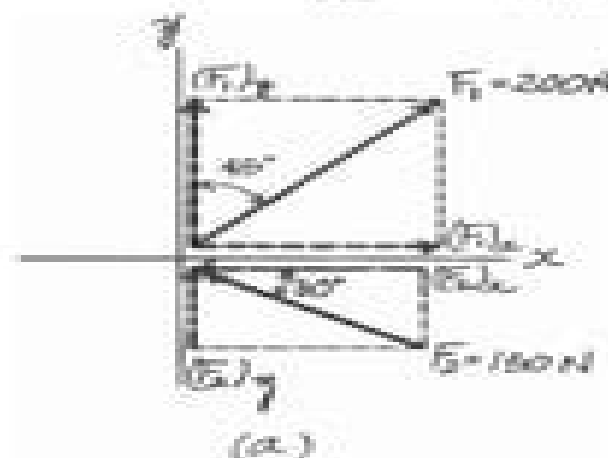
$$+ \sum F_{y_1} = \Sigma F_y \quad \Sigma F_{y_1} = 200 \sin 45^\circ + 150 \sin 30^\circ = 216.42 \text{ N} \quad +$$

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

$$F_R = \sqrt{(\Sigma F_{x_1})^2 + (\Sigma F_{y_1})^2} = \sqrt{(313.116)^2 + (216.42)^2} = 384.73 \text{ N} = 385 \text{ N} \quad \text{Ans.}$$

And the directional angle  $\alpha$  of  $F_R$  measured counter-clockwise from the positive  $x$  axis is

$$\alpha = \tan^{-1} \frac{\Sigma F_{y_1}}{\Sigma F_{x_1}} = \tan^{-1} \frac{216.42}{313.116} = 34.69^\circ = 34.7^\circ \quad \text{Ans.}$$



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## **Table of Contents Mechanics Of Materials 5th Edition Solutions Scribd**

1. Understanding the eBook Mechanics Of Materials 5th Edition Solutions Scribd
  - The Rise of Digital Reading Mechanics Of Materials 5th Edition Solutions Scribd
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials 5th Edition Solutions Scribd
  - 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 Of Materials 5th Edition Solutions Scribd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials 5th Edition Solutions Scribd

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

- Fact-Checking eBook Content of Mechanics Of Materials 5th Edition Solutions Scribd
- 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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