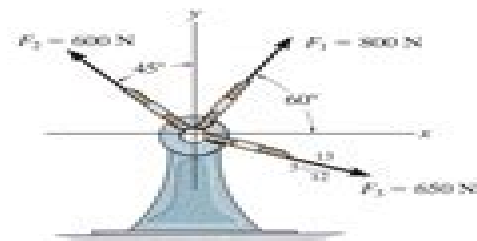


2-40.

Determine the magnitude of the resultant force and its direction  $\theta$ , measured counterclockwise from the positive  $x$  axis.



## SOLUTION

**Rectangular Components:** By referring to Fig. *a*, the  $x$  and  $y$  components of  $F_1$ ,  $F_2$ , and  $F_3$  can be written as

$$(F_1)_x = 800 \cos 60^\circ = 400 \text{ N} \quad (F_1)_y = 800 \sin 60^\circ = 692.82 \text{ N}$$

$$(F_2)_x = 600 \sin 45^\circ = 424.26 \text{ N} \quad (F_2)_y = 600 \cos 45^\circ = 424.26 \text{ N}$$

$$(F_3)_x = 650 \left( \frac{12}{13} \right) = 600 \text{ N} \quad (F_3)_y = 650 \left( \frac{5}{13} \right) = 250 \text{ N}$$

**Resultant Force:** Summing the force components algebraically along the  $x$  and  $y$  axes, we have

$$\rightarrow \Sigma (F_R)_x = \Sigma F_{ix} \quad (F_R)_x = 400 - 424.26 + 600 = 575.74 \text{ N} \rightarrow$$

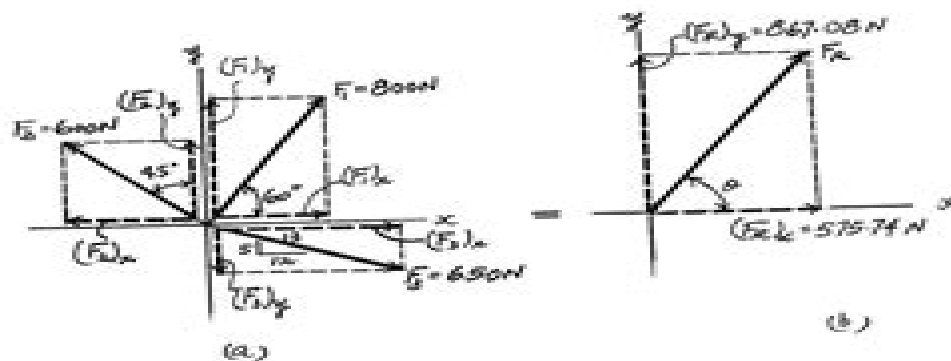
$$+\uparrow \Sigma (F_R)_y = \Sigma F_{iy} \quad (F_R)_y = -692.82 + 424.26 - 250 = -867.08 \text{ N} \downarrow$$

The magnitude of the resultant force  $F_R$  is

$$F_R = \sqrt{(F_R)_x^2 + (F_R)_y^2} = \sqrt{575.74^2 + 867.08^2} = 1041 \text{ N} = 1.04 \text{ kN} \quad \text{Ans.}$$

The direction angle  $\theta$  of  $F_R$ , Fig. *b*, measured counterclockwise from the positive  $x$  axis, is

$$\theta = \tan^{-1} \left[ \frac{(F_R)_y}{(F_R)_x} \right] = \tan^{-1} \left( \frac{867.08}{575.74} \right) = 56.4^\circ \quad \text{Ans.}$$



# Statics Hibbeler Solutions Manual

**R. C. Hibbeler**



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## **Table of Contents Statics Hibbeler Solutions Manual**

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

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