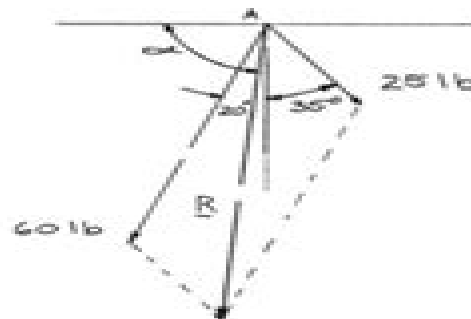


PROBLEM 2.4

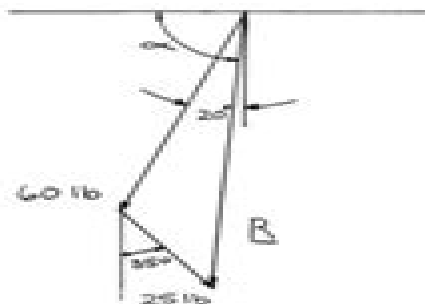
Two forces P and Q are applied as shown at Point A of a hook support. Knowing that $P = 60$ lb and $Q = 25$ lb, determine graphically the magnitude and direction of their resultant using (a) the parallelogram law, (b) the triangle rule.

SOLUTION

(a) Parallelogram law:



(b) Triangle rule:



We measure:

$$R = 77.1 \text{ lb}, \quad \alpha = 85.4^\circ$$

$$R = 77.1 \text{ lb} \nearrow 85.4^\circ$$

Vector Mechanics For Engineers Statics Solution Manual

**Ferdinand Pierre Beer, Elwood Russell
Johnston**



Vector Mechanics For Engineers Statics Solution Manual:

Solutions Manual to Accompany Vector Mechanics for Engineers, Statics, Third Ferdinand P. Beer, Elwood Russell Johnston, Théodore Wildi, 1998 Introduction La statique des particules La statique des corps rigides systemes de forces equivalentes L equilibre des corps rigides Forces reparties centroides et centres de gravite Etudes des structures Forces dans les poutres et les cables Frottement Forces reparties moment d inertie Methode des travaux virtuels

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FOR ENGINEERS: STATICS AND DYNAMICS, SI Ferdinand Beer,E. Johnston,David Mazurek,Phillip Cornwell,Brian Self,2025-11-24 Vector Mechanics for Engineers helps students analyze problems in a simple and logical manner and then apply basic principles to their solutions encouraging a strong conceptual understanding of these basic principles Offering a unified presentation of the principles of kinetics and a systematic problem solving approach the text has proven to be an effective teaching tool especially when paired with the digital resources available in Connect The addition of Case Studies in every chapter are based on actual structures and systems include failures provide students with real world engineering applications And Sample Problems liberally used at the end of each lesson align with the SMART methodology to amplify the neat and orderly work students should cultivate in their own solutions **Ebook: Vector Mechanics for Engineers:**

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Table of Contents Vector Mechanics For Engineers Statics Solution Manual

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

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