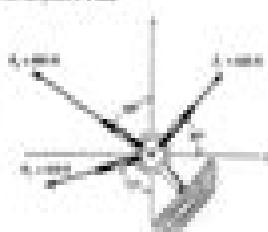


Q3. Determine the magnitude of the resultant force.  
 $F_2 = 400 \text{ N}$  at  $30^\circ$  to horizontal, measured clockwise from the positive x-axis.



$$F_2 = \sqrt{F_{2x}^2 + F_{2y}^2} = \sqrt{400^2 \cos^2 30^\circ + 400^2 \sin^2 30^\circ} = 400\sqrt{2} \text{ N}$$
$$F_2 = \frac{400\sqrt{2}}{200} = 2\sqrt{2} \text{ N}$$
$$F_2 = 282.8 \text{ N}$$
$$F_2 = 282.8 \times 10^3 \text{ N}$$

Q4. Determine the magnitude of the resultant force  $F$ .  
 $F_1 = 200 \text{ N}$ ,  $F_2 = 150 \text{ N}$ ,  $F_3 = 100 \text{ N}$ .

Prerequisite law: The parallelogram of forces law.  
Fig 1.10

Prerequisite: Resultant of three vectors is zero.

$$\text{a) } F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos 120^\circ}$$
$$= 350 \text{ N}$$
$$\text{b) } F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos 60^\circ}$$
$$= 300 \text{ N}$$



Q5. Determine the magnitude of the resultant force.  
 $F_1 = 500 \text{ N}$  at  $30^\circ$  to horizontal, measured clockwise from the positive x-axis.



$$F_1 = \sqrt{F_{1x}^2 + F_{1y}^2} = \sqrt{500^2 \cos^2 30^\circ + 500^2 \sin^2 30^\circ} = 500\sqrt{2} \text{ N}$$
$$F_1 = \frac{500\sqrt{2}}{200} = 2.5\sqrt{2} \text{ N}$$
$$F_1 = 353.6 \text{ N}$$
$$F_1 = 353.6 \times 10^3 \text{ N}$$

Q6. Determine the magnitude of the resultant force.  
 $F_2 = 400 \text{ N}$ ,  $F_3 = 300 \text{ N}$  and horizontal, measured clockwise from the positive x-axis.



$$F_2 = \sqrt{F_{2x}^2 + F_{2y}^2} = \sqrt{400^2 \cos^2 45^\circ + 400^2 \sin^2 45^\circ} = 400\sqrt{2} \text{ N}$$
$$F_2 = \frac{400\sqrt{2}}{200} = 2\sqrt{2} \text{ N}$$
$$F_2 = 282.8 \text{ N}$$
$$F_2 = 282.8 \times 10^3 \text{ N}$$

Q7. Resolve the force  $F$  into components acting along the x and y axes and determine the magnitudes of the components.



$$F_x = F \cos 30^\circ$$
$$F_x = 200 \times \frac{\sqrt{3}}{2}$$
$$F_x = 173.2 \text{ N}$$
$$F_x = 173.2 \times 10^3 \text{ N}$$



Q8. Resolve the force  $F$  into components acting along the x and y axes and determine the magnitudes of the components.

$$F_x = F \cos 30^\circ$$
$$F_x = 200 \times \frac{\sqrt{3}}{2}$$
$$F_x = 173.2 \text{ N}$$
$$F_x = 173.2 \times 10^3 \text{ N}$$

a) The force  $F$  is applied in the line of action of  $F_1$  and  $F_2$  at  $60^\circ$  to  $F_1$ , determine the magnitude of the resultant of these two forces and its direction measured from the horizontal.

Prerequisite law: The parallelogram of forces law.  
Fig 1.10

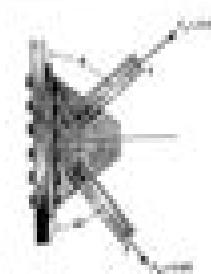
Prerequisite: Resultant of three vectors is zero.

$$F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos 120^\circ}$$
$$= 350 \text{ N}$$

The angle  $\theta$  can be determined using the formula

$$\tan \theta = \frac{F_2 \sin 120^\circ}{F_1 + F_2 \cos 120^\circ}$$
$$\theta = 30^\circ$$

The resultant of  $F_1$  and  $F_2$  is zero.



# Vector Mechanics Statics 10th Solution Manual

**JR Anderson**

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## **Table of Contents Vector Mechanics Statics 10th Solution Manual**

1. Understanding the eBook Vector Mechanics Statics 10th Solution Manual
  - The Rise of Digital Reading Vector Mechanics Statics 10th Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Vector Mechanics Statics 10th 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 Statics 10th Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Mechanics Statics 10th Solution Manual
  - Personalized Recommendations
  - Vector Mechanics Statics 10th Solution Manual User Reviews and Ratings
  - Vector Mechanics Statics 10th Solution Manual and Bestseller Lists
5. Accessing Vector Mechanics Statics 10th Solution Manual Free and Paid eBooks
  - Vector Mechanics Statics 10th Solution Manual Public Domain eBooks
  - Vector Mechanics Statics 10th Solution Manual eBook Subscription Services
  - Vector Mechanics Statics 10th Solution Manual Budget-Friendly Options
6. Navigating Vector Mechanics Statics 10th Solution Manual eBook Formats

- ePub, PDF, MOBI, and More
- Vector Mechanics Statics 10th Solution Manual Compatibility with Devices
- Vector Mechanics Statics 10th Solution Manual Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Vector Mechanics Statics 10th Solution Manual
- Highlighting and Note-Taking Vector Mechanics Statics 10th Solution Manual
- Interactive Elements Vector Mechanics Statics 10th Solution Manual

8. Staying Engaged with Vector Mechanics Statics 10th Solution Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Vector Mechanics Statics 10th Solution Manual

9. Balancing eBooks and Physical Books Vector Mechanics Statics 10th Solution Manual

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Vector Mechanics Statics 10th Solution Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Vector Mechanics Statics 10th Solution Manual

- Setting Reading Goals Vector Mechanics Statics 10th Solution Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Vector Mechanics Statics 10th Solution Manual

- Fact-Checking eBook Content of Vector Mechanics Statics 10th 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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