

2-15.

The plate is subjected to the two forces at A and B as shown. If $\theta = 60^\circ$, determine the magnitude of the resultant of these two forces and its direction measured clockwise from the horizontal.

SOLUTION

Parallelogram Law: The parallelogram law of addition is shown in Fig. a .

Trigonometry: Using law of cosines (Fig. b), we have

$$\begin{aligned} F_R &= \sqrt{8^2 + 6^2 - 2(8)(6) \cos 100^\circ} \\ &= 10.80 \text{ kN} = 10.8 \text{ kN} \end{aligned}$$

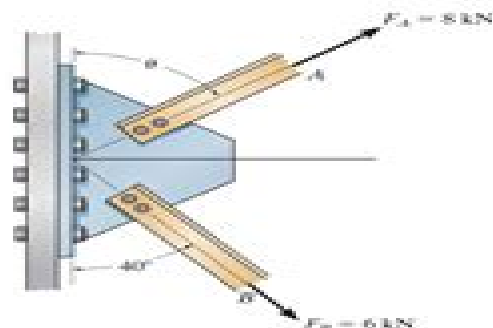
The angle θ can be determined using law of sines (Fig. b).

$$\begin{aligned} \frac{\sin \theta}{6} &= \frac{\sin 100^\circ}{10.80} \\ \sin \theta &= 0.5470 \\ \theta &= 33.16^\circ \end{aligned}$$

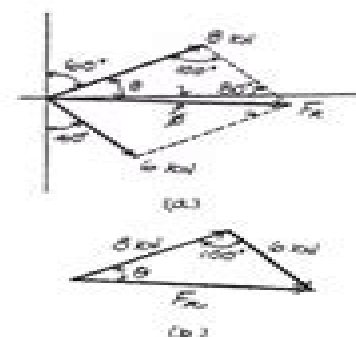
Thus, the direction ϕ of F_R measured from the x axis is

$$\phi = 33.16^\circ - 30^\circ = 3.16^\circ$$

Ans.



Ans.



Mechanic Of Material Riley Manual

**William Franklin Riley, Loren W.
Zachary**



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1. Understanding the eBook Mechanic Of Material Riley Manual
 - The Rise of Digital Reading Mechanic Of Material Riley Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanic Of Material Riley 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 Mechanic Of Material Riley Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanic Of Material Riley Manual
 - Personalized Recommendations
 - Mechanic Of Material Riley Manual User Reviews and Ratings
 - Mechanic Of Material Riley Manual and Bestseller Lists

5. Accessing Mechanic Of Material Riley Manual Free and Paid eBooks
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 - Mechanic Of Material Riley Manual eBook Subscription Services
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 - Mechanic Of Material Riley Manual Compatibility with Devices
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanic Of Material Riley Manual
 - Highlighting and Note-Taking Mechanic Of Material Riley Manual
 - Interactive Elements Mechanic Of Material Riley Manual
8. Staying Engaged with Mechanic Of Material Riley Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanic Of Material Riley Manual
9. Balancing eBooks and Physical Books Mechanic Of Material Riley Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanic Of Material Riley Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanic Of Material Riley Manual
 - Setting Reading Goals Mechanic Of Material Riley Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanic Of Material Riley Manual
 - Fact-Checking eBook Content of Mechanic Of Material Riley 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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