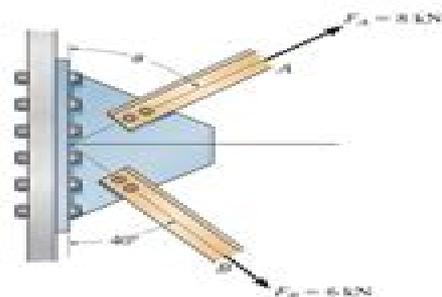


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**2-10.** Determine the angle of  $\theta$  for connecting member  $A$  to the plate so that the resultant force of  $F_A$  and  $F_B$  is directed horizontally to the right. Also, what is the magnitude of the resultant force?



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

**Trigonometry** : Using law of sines [Fig. (b)], we have

$$\frac{\sin (90^\circ - \theta)}{8} = \frac{\sin 30^\circ}{6}$$

$$\sin (90^\circ - \theta) = 0.3750$$

$$\theta = 34.93^\circ = 34.9^\circ$$

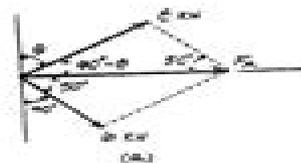
**Ans**

From the triangle,  $\phi = 180^\circ - (90^\circ + 34.93^\circ) = 55^\circ = 54.93^\circ$ . Thus, using law of cosines, the magnitude of  $F_R$  is

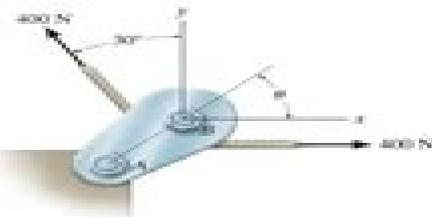
$$F_R = \sqrt{8^2 + 6^2 - 2(8)(6)\cos 54.93^\circ}$$

$$= 10.4 \text{ kN}$$

**Ans**



**2-11.** If the tension in the cable is 400 N, determine the magnitude and direction of the resultant force acting on the pulley. This angle is the same angle  $\theta$  of line  $AB$  on the tailboard block.

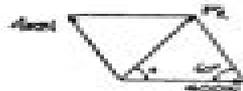


$$F_R = \sqrt{(400)^2 + (400)^2 - 2(400)(400)\cos 60^\circ} = 400 \text{ N}$$

**Ans**

$$\frac{\sin \theta}{400} = \frac{\sin 60^\circ}{400} ; \theta = 60^\circ$$

**Ans**



# Engineering Mechanics Of Higdon Solution Third Edition

**AW Rasmussen**



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## **Table of Contents Engineering Mechanics Of Higdon Solution Third Edition**

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

6. Navigating Engineering Mechanics Of Higdon Solution Third Edition eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Mechanics Of Higdon Solution Third Edition Compatibility with Devices
  - Engineering Mechanics Of Higdon Solution Third Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Mechanics Of Higdon Solution Third Edition
  - Highlighting and Note-Taking Engineering Mechanics Of Higdon Solution Third Edition
  - Interactive Elements Engineering Mechanics Of Higdon Solution Third Edition
8. Staying Engaged with Engineering Mechanics Of Higdon Solution Third Edition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Mechanics Of Higdon Solution Third Edition
9. Balancing eBooks and Physical Books Engineering Mechanics Of Higdon Solution Third Edition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Mechanics Of Higdon Solution Third Edition
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Mechanics Of Higdon Solution Third Edition
  - Setting Reading Goals Engineering Mechanics Of Higdon Solution Third Edition
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Mechanics Of Higdon Solution Third Edition
  - Fact-Checking eBook Content of Engineering Mechanics Of Higdon Solution Third Edition
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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