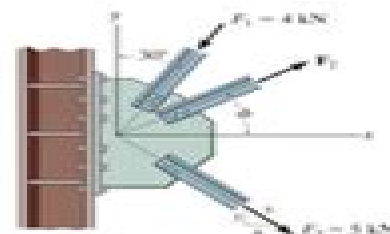


2-38. If $\phi = 30^\circ$ and the resultant force acting on the gusset plate is directed along the positive x axis, determine the magnitudes of F_1 and the resultant force.



Rectangular Components: By referring to Fig. a, the x and y -components of F_1 , F_2 , F_3 , and F_4 can be written as

$$(F_1)_x = 4 \sin 30^\circ = 2 \text{ kN}$$

$$(F_1)_y = 4 \cos 30^\circ = 3.464 \text{ kN}$$

$$(F_2)_x = F_2 \cos 30^\circ = 0.8660 F_2$$

$$(F_2)_y = F_2 \sin 30^\circ = 0.5 F_2$$

$$(F_3)_x = 5 \left(\frac{4}{5} \right) = 4 \text{ kN}$$

$$(F_3)_y = 5 \left(\frac{3}{5} \right) = 3 \text{ kN}$$

$$(F_4)_x = F_4$$

$$(F_4)_y = 0$$

Resultant Force: Summing the force components algebraically along the x and y axes,

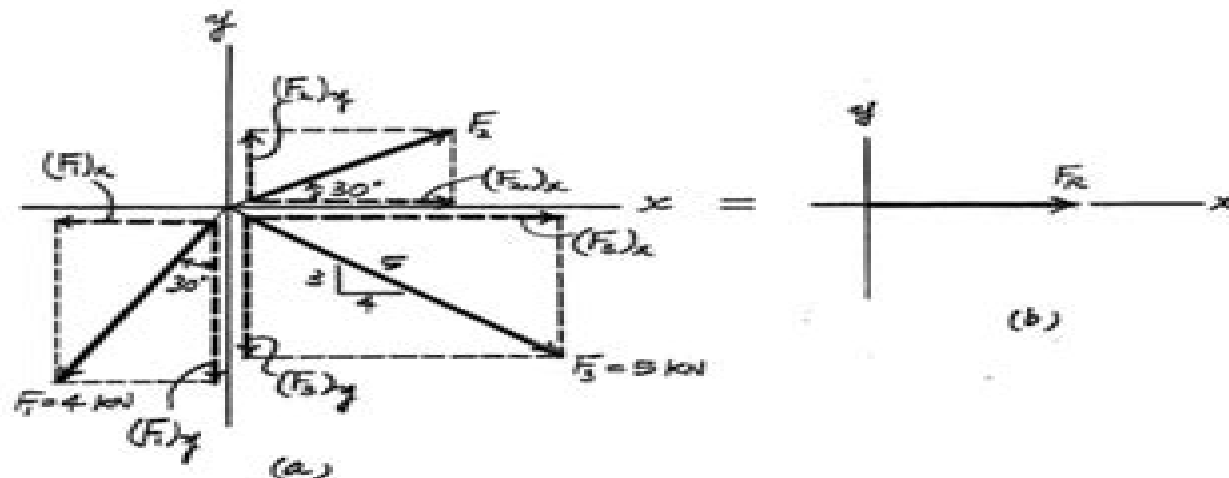
$$+\nearrow \Sigma (F_R)_y = \Sigma F_y: \quad 0 = -3.464 + 0.5 F_2 - 3$$

$$F_2 = 12.928 \text{ kN} = 12.9 \text{ kN}$$

$$\begin{aligned} \rightarrow \Sigma (F_R)_x = \Sigma F_x: \quad F_R = -2 + 0.8660(12.928) + 4 \\ = 13.2 \text{ kN} \end{aligned}$$

Ans.

Ans.



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LL Leslie

A decorative red curved shape, resembling a stylized arrow or a partial circle, is positioned to the right of the light blue bar.

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1. Understanding the eBook Hibbeler Statics Solution Manual 12th
 - The Rise of Digital Reading Hibbeler Statics Solution Manual 12th
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Statics Solution Manual 12th
 - 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 Hibbeler Statics Solution Manual 12th
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Statics Solution Manual 12th
 - Personalized Recommendations
 - Hibbeler Statics Solution Manual 12th User Reviews and Ratings
 - Hibbeler Statics Solution Manual 12th and Bestseller Lists
5. Accessing Hibbeler Statics Solution Manual 12th Free and Paid eBooks
 - Hibbeler Statics Solution Manual 12th Public Domain eBooks
 - Hibbeler Statics Solution Manual 12th eBook Subscription Services
 - Hibbeler Statics Solution Manual 12th Budget-Friendly Options
6. Navigating Hibbeler Statics Solution Manual 12th eBook Formats

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