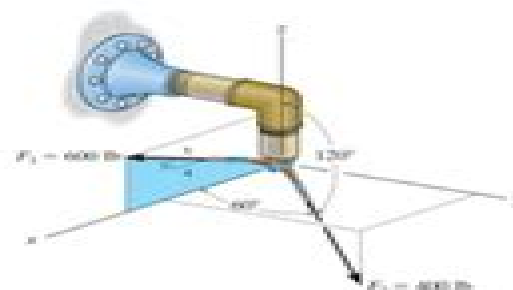


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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



Rectangular Components: Since $\cos^2 \alpha_1 + \cos^2 \beta_1 + \cos^2 \gamma_1 = 1$, then $\cos \beta_1 = \sqrt{1 - \cos^2 60^\circ} = \cos 60^\circ = 0.7071$.

However, it is required that $\beta_1 > 90^\circ$, then, $\beta_1 = \cos^{-1}(-0.7071) = 135^\circ$. By resolving F_1 and F_2 into their x , y , and z components, as shown in Figs. a and b, respectively, F_1 and F_2 can be expressed in Cartesian vector form, as

$$F_1 = 600 \left(\frac{4}{5} \right) i + 0j + 600 \left(\frac{3}{5} \right) (-k)$$

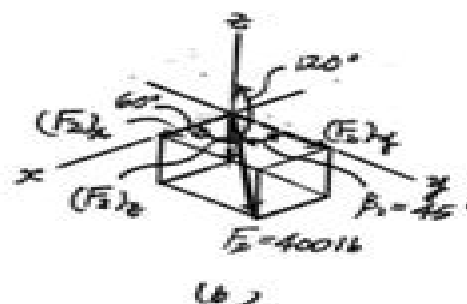
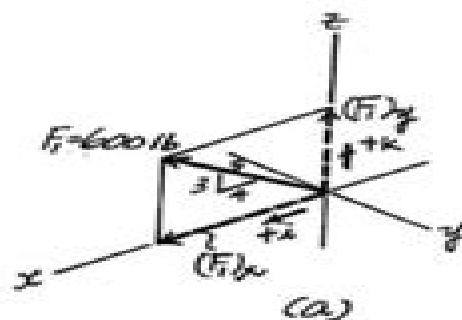
$$= \{480i - 360k\} \text{ N}$$

Ans.

$$F_2 = -400 \cos 60^\circ i + -400 \cos 45^\circ j + 400 \cos 120^\circ k$$

$$= \{200i + 283j - 200k\} \text{ N}$$

Ans.



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Table of Contents Hibbler Statics 12th Edition Solution Manual

1. Understanding the eBook Hibbler Statics 12th Edition Solution Manual
 - The Rise of Digital Reading Hibbler Statics 12th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbler Statics 12th Edition 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 Hibbler Statics 12th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbler Statics 12th Edition Solution Manual
 - Personalized Recommendations
 - Hibbler Statics 12th Edition Solution Manual User Reviews and Ratings
 - Hibbler Statics 12th Edition Solution Manual and Bestseller Lists

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