

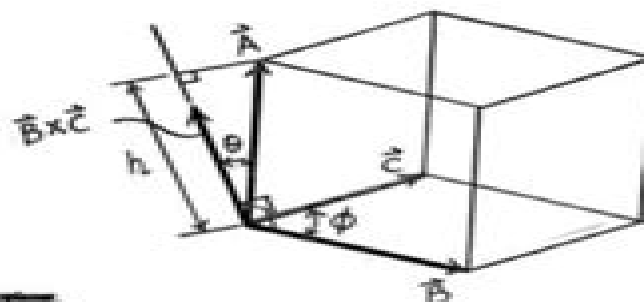
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4-3. Given the three nonzero vectors $\mathbf{A}$, $\mathbf{B}$, and $\mathbf{C}$, show that if $\mathbf{A} \cdot (\mathbf{B} \times \mathbf{C}) = 0$, then these vectors must lie in the same plane.

Consider

$$\begin{aligned} |\mathbf{A} \cdot (\mathbf{B} \times \mathbf{C})| &= |\mathbf{A}| |\mathbf{B} \times \mathbf{C}| \cos \theta \\ &= |\mathbf{A}| |\sin \phi| |\mathbf{B} \times \mathbf{C}| \\ &= |\mathbf{A}| |\mathbf{B} \times \mathbf{C}| \\ &= |\mathbf{B} \times \mathbf{C}| |\sin \phi| \\ &= \text{volume of parallelepiped.} \end{aligned}$$

If $\mathbf{A} \cdot (\mathbf{B} \times \mathbf{C}) = 0$, then the volume equals zero, so that $\mathbf{A}$, $\mathbf{B}$, and $\mathbf{C}$ are coplanar.



4-4. Two men exert forces of $P = 80$ lb and $P' = 50$ lb on the ropes. Determine the moment of each force about A . Which way will the pole rotate, clockwise or counterclockwise?

$$\zeta^+ \curvearrowleft M_{A/B} = 80 \left(\frac{3}{4} \right) (12) = 720 \text{ lb} \cdot \text{ft} \quad \text{Ans}$$

$$\zeta^+ \curvearrowleft M_{A/C} = 50 (\sin 45^\circ) (18) = 636 \text{ lb} \cdot \text{ft} \quad \text{Ans}$$

Since $M_{A/B} > M_{A/C}$

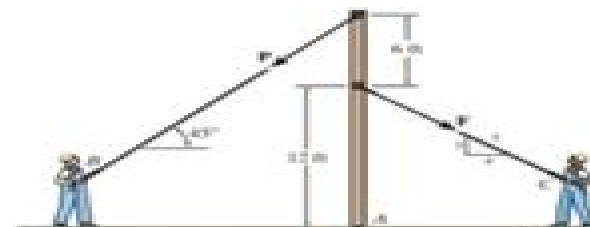
Counterclockwise Ans



4-5. If the man at B exerts a force of $P = 30$ lb on his rope, determine the magnitude of the force F the man at C must exert to prevent the pole from rotating, i.e., so the resultant moment about A of both forces is zero.

$$\zeta^+ \curvearrowleft 30 (\sin 45^\circ) (18) - F \left(\frac{3}{4} \right) (12) = 0$$

$$F = 39.3 \text{ lb} \quad \text{Ans}$$



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Table of Contents Hibbeler Statics 12th Edition Solutions Chapter 6

1. Understanding the eBook Hibbeler Statics 12th Edition Solutions Chapter 6
 - The Rise of Digital Reading Hibbeler Statics 12th Edition Solutions Chapter 6
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Statics 12th Edition Solutions Chapter 6
 - 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 12th Edition Solutions Chapter 6
 - User-Friendly Interface

4. Exploring eBook Recommendations from Hibbeler Statics 12th Edition Solutions Chapter 6
 - Personalized Recommendations
 - Hibbeler Statics 12th Edition Solutions Chapter 6 User Reviews and Ratings
 - Hibbeler Statics 12th Edition Solutions Chapter 6 and Bestseller Lists
5. Accessing Hibbeler Statics 12th Edition Solutions Chapter 6 Free and Paid eBooks
 - Hibbeler Statics 12th Edition Solutions Chapter 6 Public Domain eBooks
 - Hibbeler Statics 12th Edition Solutions Chapter 6 eBook Subscription Services
 - Hibbeler Statics 12th Edition Solutions Chapter 6 Budget-Friendly Options
6. Navigating Hibbeler Statics 12th Edition Solutions Chapter 6 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hibbeler Statics 12th Edition Solutions Chapter 6 Compatibility with Devices
 - Hibbeler Statics 12th Edition Solutions Chapter 6 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hibbeler Statics 12th Edition Solutions Chapter 6
 - Highlighting and Note-Taking Hibbeler Statics 12th Edition Solutions Chapter 6
 - Interactive Elements Hibbeler Statics 12th Edition Solutions Chapter 6
8. Staying Engaged with Hibbeler Statics 12th Edition Solutions Chapter 6
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hibbeler Statics 12th Edition Solutions Chapter 6
9. Balancing eBooks and Physical Books Hibbeler Statics 12th Edition Solutions Chapter 6
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hibbeler Statics 12th Edition Solutions Chapter 6
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hibbeler Statics 12th Edition Solutions Chapter 6
 - Setting Reading Goals Hibbeler Statics 12th Edition Solutions Chapter 6
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Hibbeler Statics 12th Edition Solutions Chapter 6
 - Fact-Checking eBook Content of Hibbeler Statics 12th Edition Solutions Chapter 6
 - 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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