

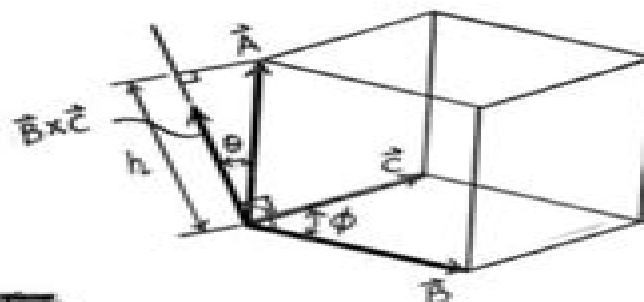
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4-3. Given the three nonzero vectors  $\mathbf{A}$ ,  $\mathbf{B}$ , and  $\mathbf{C}$ , show that if  $\mathbf{A} \cdot (\mathbf{B} \times \mathbf{C}) = 0$ , then these vectors must lie in the same plane.

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.



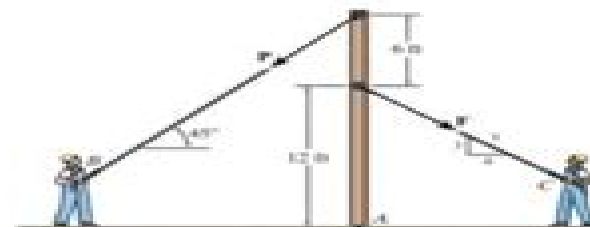
4-4. Two men exert forces of  $P = 80$  lb and  $P' = 50$  lb on the ropes. Determine the moment of each force about  $A$ . Which way will the pole rotate, clockwise or counterclockwise?

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

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

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

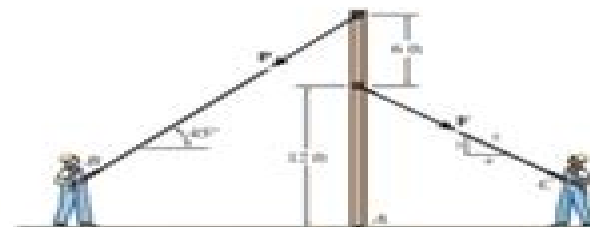
Counterclockwise    Ans



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.

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

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



# Hibbeler Statics Solution Manual Chapter 4

**Clifford Lane**



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