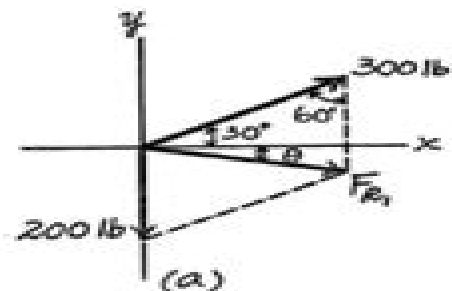


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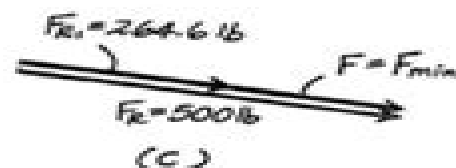
**2-36.** Three chains act on the bracket such that they create a resultant force having a magnitude of 500 lb. If two of the chains are subjected to known forces, as shown, determine the angle  $\theta$  of the third chain measured clockwise from the positive  $x$  axis, so that the magnitude of force  $\mathbf{F}$  in this chain is a minimum. All forces lie in the  $x$ - $y$  plane. What is the magnitude of  $\mathbf{F}$ ? *Hint:* First find the resultant of the two known forces. Force  $\mathbf{F}$  acts in this direction.



(a)



(b)



(c)

Cosine law:

$$F_{R1} = \sqrt{300^2 + 200^2 - 2(300)(200)\cos 60^\circ} = 264.6 \text{ lb}$$

Sine law:

$$\frac{\sin 60^\circ}{200} = \frac{\sin \theta}{264.6} \quad \theta = 15.9^\circ \quad \text{Ans}$$

When  $\mathbf{F}$  is directed along  $F_{R1}$ ,  $\mathbf{F}$  will be minimum to create the resultant force.

$$\begin{aligned} F_R &= F_{R1} + F \\ 500 &= 264.6 + F_{\min} \\ F_{\min} &= 235 \text{ lb} \end{aligned}$$

Ans

# Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7

**A. Bedford, Wallace L. Fowler**



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**Instructor's Solutions Manual for Engineering Mechanics: Statics** Andrew Pytel, Jaan Kiusalaas, 1999

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