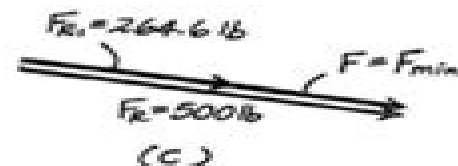
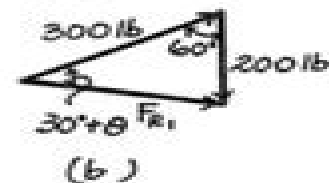
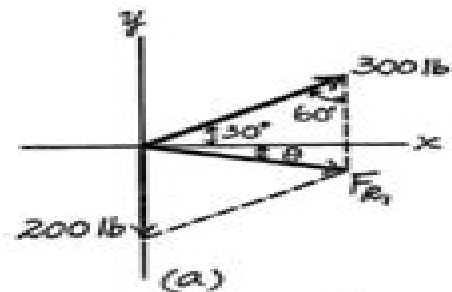


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2-36. Three chains act on the bracket such that they create a resultant force having a magnitude of 500 lb. If two of the chains are subjected to known forces, as shown, determine the angle θ of the third chain measured clockwise from the positive 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.



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.

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

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