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Determine the magnitude of the resultant force $F_R = F_1 + F_2$ and its direction, measured counterclockwise from the positive x axis.

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Engineering Mechanics - Statics Chapter 2 Given: $F_a = 30 \text{ lb}$ $\theta_1 = 80 \text{ deg}$ $\theta_2 = 60 \text{ deg}$
Solution: $F_a \sin(\theta_1) + F_b \sin(180 \text{ deg} - \theta_1 + \theta_2) = F$
 $F_a \sin 180 \text{ deg} - \theta_1 - \theta_2 \sin(\theta_1) + F_b \sin(\theta_2) = F$
 $F = 19.6 \text{ lb}$
 $F_a \sin(\theta_1) = F_b$
 $F_a \sin(\theta_2) \sin(\theta_1) = F_b$
 $= 26.4 \text{ lb}$
Problem 2-13 A resultant force F is necessary to hold the ballon in place.
Resolve this force into components

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chapter 2 hibbeler statics solutions can be Chapter 2 Hibbeler Statics Solutions $\theta_2 = 30^\circ$ $\theta_3 = 45^\circ$ Solution: $F_u \sin 180^\circ - F_1 \cos \theta_1 + F_2 \cos \theta_2 = 0$ $F_2 = \frac{F_u \sin 180^\circ - F_1 \cos \theta_1}{\cos \theta_2}$ $F_v = F_2 \sin \theta_2 - F_1 \sin \theta_1$ $F_u = 86.6 \text{ lb}$ $F_v = -F_2 \sin \theta_2 + F_1 \sin \theta_1$

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His industrial experience includes work and research in bridges, tall buildings, shell structures, jetties, pavements, cable structures, glass diaphragm walls. Professor Fan was also the adaptor for the 5th and 6th SI editions of Hibbeler's Mechanics of Materials, and the 12th SI edition of Hibbeler's Engineering Mechanics: Statics and ...

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$v = 3.106 \text{ kN} = 3.11 \text{ kN}$ Ans. *2-8. Resolve the force F_2 into components acting along the u and v axes and determine the magnitudes of the components. $u = v = 75^\circ$
30! 30! $F_1 = 4 \text{ kN}$. $F_2 = 6 \text{ kN}$. exist. No portion of this material may be reproduced, in any form or by any means, without

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(θ) $t \ll l$ $I_x = \frac{1}{3} t l^3 \sin^2 \theta = \frac{1}{3} \theta$ Problem 10-4 Determine the moment for ...

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