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2-34. If the magnitude of the resultant force acting on the eyebolt is 600 N and its direction measured clockwise from the positive  $x$  axis is  $\theta = 30^\circ$ , determine the magnitude of  $F_1$  and the angle  $\phi$ .

**Rectangular Components:** By referring to Figs.  $a$  and  $b$ , the  $x$  and  $y$  components of  $F_1$ ,  $F_2$ ,  $F_3$ , and  $F_R$  can be written as

$$(F_1)_x = F_1 \cos \phi$$

$$(F_2)_x = 500 \cos 60^\circ = 250 \text{ N}$$

$$(F_3)_x = -450 \left( \frac{3}{5} \right) = -270 \text{ N}$$

$$(F_R)_x = 600 \cos 30^\circ = 519.62 \text{ N}$$

$$(F_1)_y = F_1 \sin \phi$$

$$(F_2)_y = 500 \sin 60^\circ = 433.01 \text{ N}$$

$$(F_3)_y = -450 \left( \frac{4}{5} \right) = -360 \text{ N}$$

$$(F_R)_y = 600 \sin 30^\circ = 300 \text{ N}$$



**Resultant Forces:** Summing the force components algebraically along the  $x$  and  $y$  axes,

$$\begin{aligned} \Sigma (F_R)_x = \Sigma F_x: \quad 519.62 = F_1 \cos \phi + 250 - 270 \\ F_1 \cos \phi = 599.62 \end{aligned} \quad (1)$$

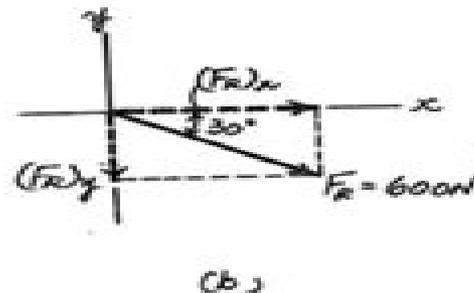
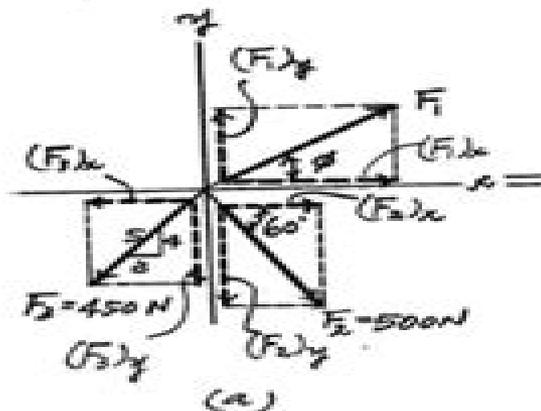
$$\begin{aligned} + \Sigma (F_R)_y = \Sigma F_y: \quad -300 = F_1 \sin \phi - 433.01 - 360 \\ F_1 \sin \phi = 493.01 \end{aligned} \quad (2)$$

Substituting Eqs. (1) and (2), yields

$$\phi = 42.4^\circ$$

$$F_1 = 731 \text{ N}$$

Ans.



# Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7

**CO Houle**



**Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7:**

## Reviewing **Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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