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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 ϕ .



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

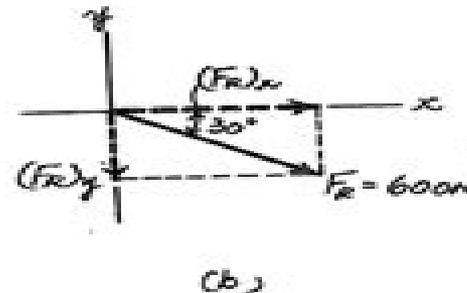
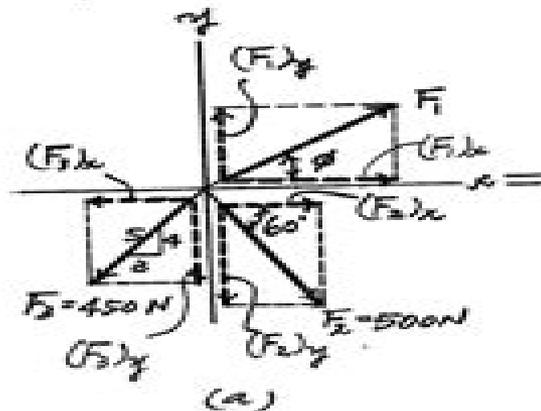
$$\begin{aligned} (F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\ (F_2)_x &= 500 \cos 60^\circ = 250 \text{ N} & (F_2)_y &= 500 \sin 60^\circ = 433.01 \text{ N} \\ (F_3)_x &= 450 \left(\frac{3}{5}\right) = 270 \text{ N} & (F_3)_y &= 450 \left(\frac{4}{5}\right) = 360 \text{ N} \\ (F_R)_x &= 600 \cos 30^\circ = 519.62 \text{ N} & (F_R)_y &= 600 \sin 30^\circ = 300 \text{ N} \end{aligned}$$

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

$$\begin{aligned} \Sigma_x \Sigma (F_R)_x &= \Sigma F_x: & 519.62 &= F_1 \cos \phi + 250 - 270 & (1) \\ & & F_1 \cos \phi &= 509.62 \\ + \Sigma (F_R)_y &= \Sigma F_y: & -300 &= F_1 \sin \phi - 433.01 - 360 & (2) \\ & & F_1 \sin \phi &= -493.01 \end{aligned}$$

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

$$\phi = 42.4^\circ \quad F_1 = 731 \text{ N} \quad \text{Ans.}$$



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