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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 $\theta = 50^{\circ}$, determine the magnitude of F, and the angle &.

Rectangular Components: By referring to Figs. a and b, the x and y components of Fig. Fo. Fig. and Fig. can be written as

$$(F_i)_{\alpha} = F_i \operatorname{com} \phi$$

$$(\mathcal{F}_{i})_{p} := \mathcal{F}_{i} \operatorname{simp}$$

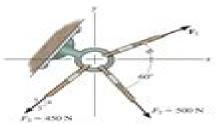
$$(F_2)_y = 500\cos 60^\circ = 250\,\text{N}$$

$$(F_3)_{\alpha} = 500 \sin 60^{\circ} = 433.01 \text{ N}$$

$$(P_3)_p = 450\left(\frac{4}{5}\right) = 360 \text{ N}$$

$$(F_{R})_{\alpha} = 600\cos 30^{\alpha} = 509.62 \text{ N}$$

$$(P_{\rm B})_{\rm p} = 600 {\rm min} 30^{\circ} - 300 {\rm M}$$



mt Force: Summing the force components algebraically along the x and y axes.

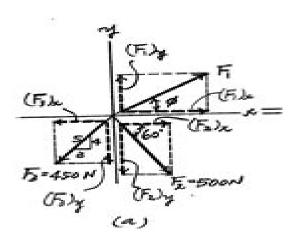
$$\Sigma_s E(F_R)_s = EF_R$$
: $519.62 = F_0 \cos \phi + 250 - 270$

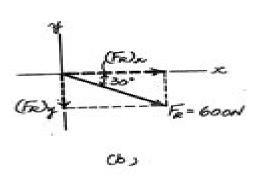
$$F_1 \cos \phi = 509.62$$

+ $7 \text{ E}(F_R)_y = 2F_y$; $-300 = F_1 \sin \phi = 433.01 - 360$
 $F_1 \sin \phi = 493.01$

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

$$P_0 = 200 \text{ Ne}$$





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