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*2–33. If $F_1 = 600\text{ N}$ and $\phi = 30^\circ$, determine the magnitude of the resultant force acting on the eyebolt and its direction measured clockwise from the positive x axis.

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

$$\begin{aligned}(F_1)_x &= 600 \cos 30^\circ = 519.62\text{ N} & (F_1)_y &= 600 \sin 30^\circ = 300\text{ N} \\(F_2)_x &= 500 \cos 60^\circ = 250\text{ N} & (F_2)_y &= 500 \sin 60^\circ = 433.0\text{ N} \\(F_3)_x &= 450 \left(\frac{3}{5}\right) = 270\text{ N} & (F_3)_y &= 450 \left(\frac{4}{5}\right) = 360\text{ N}\end{aligned}$$

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

$$\begin{aligned}\sum F_x: (F_R)_x &= \sum F_x; & (F_R)_x &= 519.62 + 250 - 270 = 499.62\text{ N} \rightarrow \\ \sum F_y: (F_R)_y &= \sum F_y; & (F_R)_y &= 300 - 433.01 - 360 = -493.01\text{ N} \downarrow\end{aligned}$$

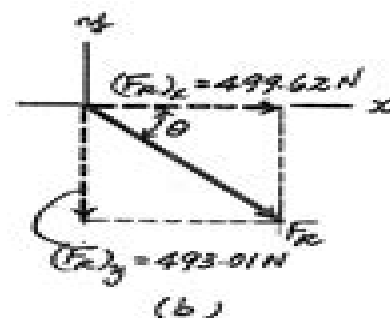
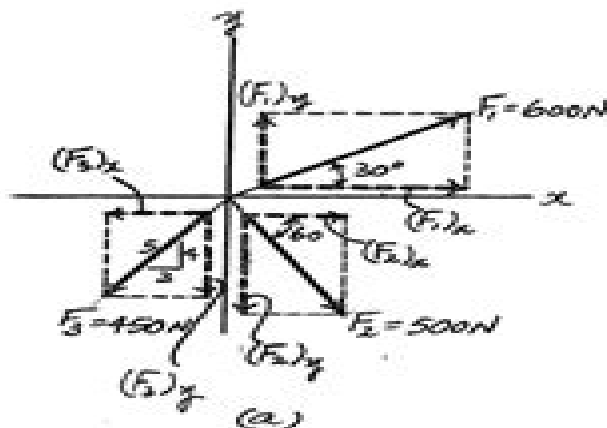
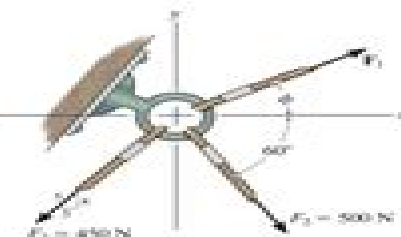
The magnitude of the resultant force F_R is

$$F_R = \sqrt{(F_R)_x^2 + (F_R)_y^2} = \sqrt{499.62^2 + 493.01^2} = 701.91\text{ N} \approx 702\text{ N}$$

Ans.

The direction angle θ of F_R , Fig. b , measured clockwise from the x axis, is

$$\theta = \tan^{-1} \left(\frac{(F_R)_y}{(F_R)_x} \right) = \tan^{-1} \left(\frac{-493.01}{499.62} \right) = 44.6^\circ$$



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