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2-25. If $\theta = 30^\circ$ and $F_2 = 6 \text{ kN}$, determine the magnitude of the resultant force acting on the plate and its direction measured clockwise from the positive x axis.

Parallelogram Law and Triangular Rule This problem can be solved by adding the forces successively, using the parallelogram law of addition, shown in Fig. a. Two triangular force diagrams, shown in Figs. b and c, can be derived from the parallelogram.

Determination of Unknowns: Referring to Fig. a, F' and α can be determined as follows.

$$F' = \sqrt{4^2 + 5^2} = 6.403 \text{ kN}$$

$$\tan \alpha = \frac{5}{4} \quad \alpha = 51.34^\circ$$

Using the results for F' and α and referring to Fig. c, F_R and β can be determined.

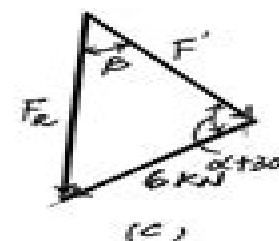
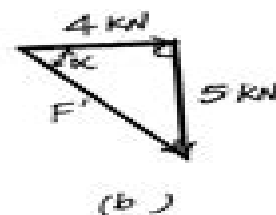
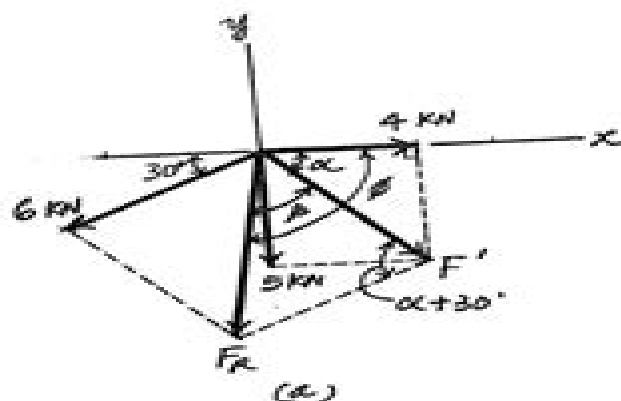
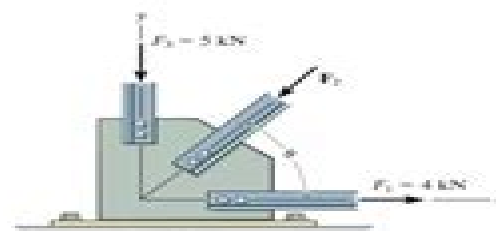
$$F_R = \sqrt{6^2 + 6.403^2 - 2(6)(6.403)\cos(51.34^\circ + 30^\circ)}$$

$$= 8.089 \text{ kN} = 8.09 \text{ kN} \quad \text{Ans.}$$

$$\frac{\sin \beta}{6} = \frac{\sin(51.34^\circ + 30^\circ)}{8.089} \quad \beta = 47.16^\circ$$

Thus, the direction angle ϕ of F_R , measured clockwise from the positive x axis, is

$$\phi = \alpha + \beta = 51.34^\circ + 47.16^\circ = 98.5^\circ \quad \text{Ans.}$$



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N Colangelo



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