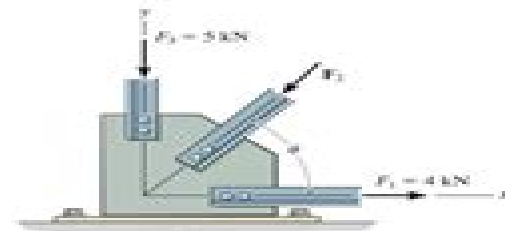


*2-24. If the resultant force F_R is directed along a line measured 75° clockwise from the positive x axis and the magnitude of F_2 is to be a minimum, determine the magnitudes of F_R and F_2 and the angle $\theta = 90^\circ$.



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 parallelograms. For F_2 to be minimum, it must be perpendicular to the resultant force's line of action. Thus,

$$\theta = 90^\circ - 75^\circ = 15^\circ$$

Ans.

Referring to Fig. *b*, F' and α can be determined.

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

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

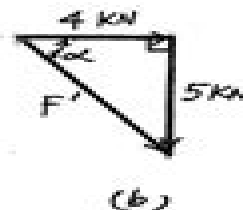
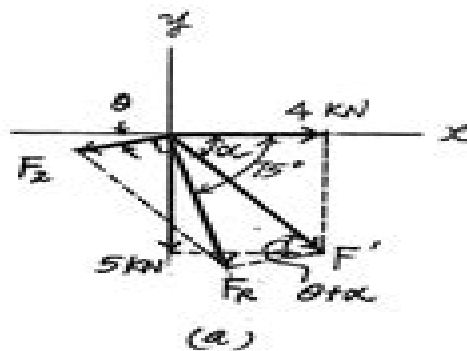
Using the results for θ , α , and F' , F_R and F_2 can be determined by referring to Fig. *c*.

$$F_2 = 6.403 \cos(15^\circ + 51.43^\circ) = 2.57 \text{ kN}$$

Ans.

$$F_R = 6.403 \sin(15^\circ + 51.43^\circ) = 5.86 \text{ kN}$$

Ans.



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