

PROBLEM 2.10

Two forces are applied as shown to a hook support. Knowing that the magnitude of P is 35 N, determine by trigonometry (a) the required angle α if the resultant R of the two forces applied to the support is to be horizontal, (b) the corresponding magnitude of R .

SOLUTION

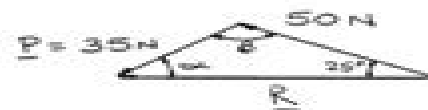
Using the triangle rule and law of sines:

$$\begin{aligned} \text{(a)} \quad \frac{\sin \alpha}{50 \text{ N}} &= \frac{\sin 25^\circ}{35 \text{ N}} \\ \sin \alpha &= 0.60374 \end{aligned}$$

$$\alpha = 37.138^\circ$$

$$\begin{aligned} \text{(b)} \quad \alpha + \beta + 25^\circ &= 180^\circ \\ \beta &= 180^\circ - 25^\circ - 37.138^\circ \\ &= 117.862^\circ \end{aligned}$$

$$\frac{R}{\sin 117.862^\circ} = \frac{35 \text{ N}}{\sin 25^\circ}$$



$$\alpha = 37.1^\circ \blacktriangleleft$$

$$R = 73.2 \text{ N} \blacktriangleleft$$

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