



## SAMPLE PROBLEM 2.1

The two forces **P** and **Q** act on a bolt **A**. Determine their resultant.

## SOLUTION

**Graphical Solution.** A parallelogram with sides equal to **P** and **Q** is drawn to scale. The magnitude and direction of the resultant are measured and found to be

$$R = 98 \text{ N} \quad \alpha = 35^\circ \quad R = 98 \text{ N} \angle 35^\circ \quad \blacktriangleleft$$

The triangle rule may also be used. Forces **P** and **Q** are drawn in tip-to-tail fashion. Again the magnitude and direction of the resultant are measured.

$$R = 98 \text{ N} \quad \alpha = 35^\circ \quad R = 98 \text{ N} \angle 35^\circ \quad \blacktriangleleft$$

**Trigonometric Solution.** The triangle rule is again used; two sides and the included angle are known. We apply the law of cosines.

$$R^2 = P^2 + Q^2 - 2PQ \cos B$$

$$R^2 = (40 \text{ N})^2 + (60 \text{ N})^2 - 2(40 \text{ N})(60 \text{ N}) \cos 155^\circ$$

$$R = 97.73 \text{ N}$$

Now, applying the law of sines, we write

$$\frac{\sin A}{Q} = \frac{\sin B}{R} \quad \frac{\sin A}{60 \text{ N}} = \frac{\sin 155^\circ}{97.73 \text{ N}} \quad (1)$$

Solving Eq. (1) for  $\sin A$ , we have

$$\sin A = \frac{(60 \text{ N}) \sin 155^\circ}{97.73 \text{ N}}$$

Using a calculator, we first compute the quotient, then its arc sine, and obtain

$$A = 15.04^\circ \quad \alpha = 20^\circ + A = 35.04^\circ$$

We use 3 significant figures to record the answer (cf. Sec. 1.6):

$$R = 97.7 \text{ N} \angle 35.0^\circ \quad \blacktriangleleft$$

**Alternative Trigonometric Solution.** We construct the right triangle **BCD** and compute

$$CD = (60 \text{ N}) \sin 25^\circ = 25.36 \text{ N}$$

$$BD = (60 \text{ N}) \cos 25^\circ = 54.38 \text{ N}$$

Then, using triangle **ACD**, we obtain

$$\tan A = \frac{25.36 \text{ N}}{54.38 \text{ N}} \quad A = 15.04^\circ$$

$$R = \frac{25.36}{\sin A} \quad R = 97.73 \text{ N}$$

Again,

$$\alpha = 20^\circ + A = 35.04^\circ \quad R = 97.7 \text{ N} \angle 35.0^\circ \quad \blacktriangleleft$$



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**RS Peters**



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