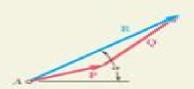
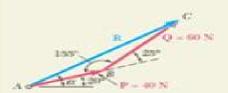


SAMPLE PROBLEM 2.1

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:

$$R = 98 \, \text{N}$$

$$R = 98 \text{ N}$$
 $\alpha = 35^{\circ}$ $R = 98 \text{ N} = 235^{\circ}$

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

$$R = 98 N$$
 $\alpha = 3$

$$M = 35^{\circ}$$

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

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

$$\frac{\sin A}{90 \text{ N}} = \frac{\sin 155^{\circ}}{97.73 \text{ N}}$$

CID

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

$$A = 15.04^{\circ}$$
 $\alpha = 20^{\circ} + A = 35.04^{\circ}$

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

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

$$\tan A = \frac{25.36 \text{ N}}{94.38 \text{ N}}$$
 $A = 15.04^{\circ}$

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

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

Again.

$$\alpha = 20^{\circ} + A = 35.04^{\circ}$$
 R = 97.7 N $\angle 35.0^{\circ}$ 4

$$B = 97.7 \text{ N} \text{ Let35.0}^{\circ}$$

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RS Peters

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