

NEWTON'S LAWS OF MOTION

4.1. IDENTIFY: Vector addition.

SET UP: Use a coordinate system where the $+x$ -axis is in the direction of \vec{F}_A , the force applied by dog A. The forces are sketched in Figure 4.1.

EXECUTE:

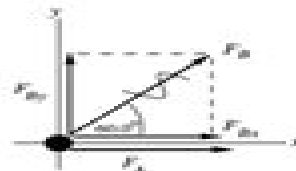


Figure 4.1a

$$\vec{R} = \vec{F}_A + \vec{F}_B$$

$$R_x = F_{Ax} + F_{Bx} = +270 \text{ N} + 150 \text{ N} = +420 \text{ N}$$

$$R_y = F_{Ay} + F_{By} = 0 + 260 \text{ N} = +260 \text{ N}$$

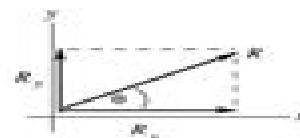


Figure 4.1b

$$F_{Ax} = +270 \text{ N}, \quad F_{Ay} = 0$$

$$F_{Bx} = F_B \cos 60.0^\circ = (300 \text{ N}) \cos 60.0^\circ = +150 \text{ N}$$

$$F_{By} = F_B \sin 60.0^\circ = (300 \text{ N}) \sin 60.0^\circ = +260 \text{ N}$$

$$R = \sqrt{R_x^2 + R_y^2}$$

$$R = \sqrt{(420 \text{ N})^2 + (260 \text{ N})^2} = 494 \text{ N}$$

$$\tan \theta = \frac{R_y}{R_x} = 0.619$$

$$\theta = 31.8^\circ$$

EVALUATE: The forces must be added as vectors. The magnitude of the resultant force is less than the sum of the magnitudes of the two forces and depends on the angle between the two forces.

4.2. IDENTIFY: We know the magnitudes and directions of three vectors and want to use them to find their components, and then to use the components to find the magnitude and direction of the resultant vector.

SET UP: Let $F_1 = 985 \text{ N}$, $F_2 = 788 \text{ N}$, and $F_3 = 411 \text{ N}$. The angles θ that each force makes with the $+x$ axis are $\theta_1 = 31^\circ$, $\theta_2 = 122^\circ$, and $\theta_3 = 233^\circ$. The components of a force vector are $F_x = F \cos \theta$ and

$$F_y = F \sin \theta, \text{ and } R = \sqrt{R_x^2 + R_y^2} \text{ and } \tan \theta = \frac{R_y}{R_x}.$$

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