

## Holt Physics

**Problem 4A****NET EXTERNAL FORCE****PROBLEM**

Two soccer players kick a ball at the same instant. One player kicks with a force of 65 N to the north, while the other player kicks with a force of 88 N to the east. In what direction does the ball travel?

**SOLUTION****1. DEFINE**

Given:

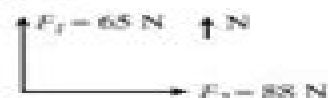
$$F_1 = 65 \text{ N north}$$

$$F_2 = 88 \text{ N east}$$

Unknowns:

$$\theta = ?$$

Diagram:

**2. PLAN**

Select a coordinate system and apply it to the free-body diagram. Choose the positive  $x$ -axis to align with east and the positive  $y$ -axis to align with north.

**3. CALCULATE**

Find the  $x$  and  $y$  components of all vectors.

$$F_{1,x} = 0 \text{ N}$$

$$F_{1,y} = 65 \text{ N}$$

$$F_{2,x} = 88 \text{ N}$$

$$F_{2,y} = 0 \text{ N}$$

Find the net external force in both the  $x$  and  $y$ -directions.

$$F_{x,\text{net}} = \Sigma F_x = F_{1,x} + F_{2,x} = 0 \text{ N} + 88 \text{ N} = 88 \text{ N}$$

$$F_{y,\text{net}} = \Sigma F_y = F_{1,y} + F_{2,y} = 65 \text{ N} + 0 \text{ N} = 65 \text{ N}$$

Find the direction of the net external force. Use the tangent function to find the angle  $\theta$  of  $F_{\text{net}}$ :

$$\theta = \tan^{-1}\left(\frac{F_{y,\text{net}}}{F_{x,\text{net}}}\right) = \tan^{-1}\left(\frac{65 \text{ N}}{88 \text{ N}}\right) = 36^\circ$$

$$\theta = \boxed{36^\circ \text{ north of east}}$$

**4. EVALUATE**

The direction is about three-fourths of the way to the midpoint ( $45^\circ$ ) between north and east. This corresponds closely to the ratio of 65 N to 88 N (0.74).

**ADDITIONAL PRACTICE**

- Two tugboats pull a barge across the harbor. One boat exerts a force of  $7.5 \times 10^4 \text{ N}$  north, while the second boat exerts a force of  $9.5 \times 10^4 \text{ N}$  at  $15.0^\circ$  north of west. Precisely, in what direction does the barge move?
- Three workers move a car by pulling on three ropes. The first worker exerts a force of  $6.00 \times 10^2 \text{ N}$  to the north, the second a force of  $7.50 \times 10^2 \text{ N}$  to the east, and the third  $6.75 \times 10^2 \text{ N}$  at  $30.0^\circ$  south of east. In what precise direction does the car move?

## Problem 4a Holt Physics Answers

**Sampson Low**



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