DATE

CLASS

Holt Physics

roblem 4A

 $P_{\rm m} = 108 \text{ M} \text{ mast}$

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

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

Unfengage:
$$\theta = ?$$

SE. 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.

BL CALCULATE

Find the x and y components of all vectors.

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

 $F_{-} = 0 \text{ N}$

$$F_{Ly}=65~\mathrm{N}$$

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

$$F_{A,p}=0.38$$

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

$$F_{x,\text{swt}} = \Sigma F_x = F_{f,x} + F_{T,x} = 0 \text{ N} + 88 \text{ N} = 88 \text{ N}$$

$$F_{NDM} = \Sigma F_y = F_{J,y} + F_{J,y} = 65 \text{ N} + 0 \text{ N} = 65 \text{ N}$$

Find the direction of the net external force. Use the tangent function to find the angle 6 of Face.

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

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

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

MILL REVISED LINETED

The direction is about three-fourths of the way to the midpoint (45°) between morth and east. This corresponds closely to the ratio of 65 N to 88 N (0.74).

ADDITIONAL PRACTICE

- 1. Two tugboats pull a barge across the harbor. One boat exerts a force of 7.5×10^4 N north, while the second boat exerts a force of 9.5×10^9 N at 15.0° north of west. Precisely, in what direction does the barge move?
- 2. Three workers move a car by pulling on three ropes. The first worker exerts a force of 6.00×10^2 N to the north, the second a force of 7.50×10^2 N to the east, and the third 6.75×10^{3} N at 30.0° south of east. In what precine direction does the car mose?

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