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  $7.5 \times 10^4$  N north, while the second boat exerts a force of  $9.5 \times 10^9$  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  $6.00 \times 10^2$  N to the north, the second a force of  $7.50 \times 10^2$  N to the east, and the third  $6.75 \times 10^{3}$  N at  $30.0^{\circ}$  south of east. In what precine direction does the car mose?

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High School Department Bulletins University of the State of New York, 1900 Contains proceedings of various teachers Bulletin ,1900 Proceedings of the ... Annual Conference New York associations academic examination papers etc State Science Teachers Association, 1900 Teachers' Monographs, 1915 A Text-book of Physics, Largely Experimental Edwin Herbert Hall, 1905 Books in Print ,1962 School,1908 Cómo hacer un plan estratégico de comunicación Vol. I. Kathy Matilla i Serrano, 2018-03-28 En estos tiempos en que los ndices de lectura cotizan claramente a la baja la Colecci n Dircom ha decidido realizar una apuesta a la contra y publicar un t tulo nada m s y nada menos que en cuatro vol menes En esta obra se realizan aportaciones para que los profesionales de la comunicaci n se documenten y puedan aplicar en su quehacer diario lo que aparece impreso en estas p ginas cuando hay que hacer frente al dise o de un plan estrat gico de comunicaci n Porque precisamente ese es el prop sito de esta obra mostrar paso a paso c mo elaborar un plan estrat gico de comunicaci n desde la perspectiva de las relaciones p blicas y de la comunicaci n corporativa aportando un modelo para la The Scholarship of Teaching and Learning in Higher Education Shirley Booth, Laurie Woollacott, 2015-12-31 acci n This book makes a significant contribution to the literature on the Scholarship of Teaching and Learning SoTL It provides

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- 1. Understanding the eBook Holt Physics Practice 4a
  - The Rise of Digital Reading Holt Physics Practice 4a
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Holt Physics Practice 4a
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Physics Practice 4a
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Holt Physics Practice 4a
  - Personalized Recommendations
  - Holt Physics Practice 4a User Reviews and Ratings
  - Holt Physics Practice 4a and Bestseller Lists
- 5. Accessing Holt Physics Practice 4a Free and Paid eBooks
  - Holt Physics Practice 4a Public Domain eBooks
  - Holt Physics Practice 4a eBook Subscription Services
  - Holt Physics Practice 4a Budget-Friendly Options

- 6. Navigating Holt Physics Practice 4a eBook Formats
  - o ePub, PDF, MOBI, and More
  - Holt Physics Practice 4a Compatibility with Devices
  - Holt Physics Practice 4a Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Holt Physics Practice 4a
  - Highlighting and Note-Taking Holt Physics Practice 4a
  - o Interactive Elements Holt Physics Practice 4a
- 8. Staying Engaged with Holt Physics Practice 4a
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Physics Practice 4a
- 9. Balancing eBooks and Physical Books Holt Physics Practice 4a
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  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Physics Practice 4a
  - Setting Reading Goals Holt Physics Practice 4a
  - Carving Out Dedicated Reading Time
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  - Fact-Checking eBook Content of Holt Physics Practice 4a
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  - Utilizing eBooks for Skill Development
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  - Integration of Multimedia Elements

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