

HW4 - Chapt 4 problems (under construction)

Due: 11:59pm on Wednesday, September 23, 2009

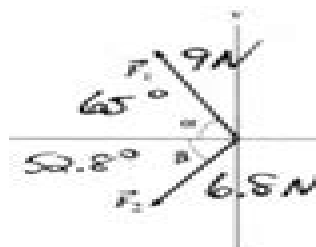
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Two Forces Acting at a Point

Description: Find the components and the magnitude of the resultant force given the magnitude and the direction of two forces acting at the same point. (version for algebra-based courses)

Two forces, $\vec{F}_1$ and $\vec{F}_2$, act at a point, as shown in the picture.

$\vec{F}_1$ has a magnitude of 9.00 N and is directed at an angle of $\alpha = 65.0^\circ$ above the negative x axis in the second quadrant. $\vec{F}_2$ has a magnitude of 6.80 N and is directed at an angle of $\beta = 52.8^\circ$ below the negative x axis in the third quadrant.



Handwritten notes and diagram illustrating the components of $\vec{F}_1$:

$$\vec{F}_1 = (F_{1x}, F_{1y})$$

Diagram showing a right triangle for $\vec{F}_1$ with hypotenuse $|\vec{F}_1|$, adjacent side F_{1x} , and opposite side F_{1y} . The angle α is between the negative x-axis and the vector.

$$F_{1x} = -|\vec{F}_1| \cos \alpha$$

Annotation: "put in 'big' hand"

Part A

What is the x component F_{1x} of the resultant force?

Hint A.1 How to approach the problem

The resultant force is defined as the vector sum of all forces. Thus, its x component is the sum of the x components of the forces, and its y component is the sum of the y components of the forces.

Hint A.2 Find the x component of $\vec{F}_1$

Find the x component of $\vec{F}_1$.

Hint A.2.1 Components of a vector

Consider a vector $\vec{A}$ that forms an angle θ with the positive x axis. The x and y components of $\vec{A}$ are, respectively,

$$A_x = A \cos \theta \text{ and } A_y = A \sin \theta,$$

where A is the magnitude of the vector. Note that the sign of A_x and A_y depends on what quadrant $\vec{A}$ lies in. For example, A_x is positive if $\vec{A}$ lies in either the first or the fourth quadrant, and it is negative when $\vec{A}$ lies in either the second or the third quadrant. Similarly, A_y is positive if $\vec{A}$ lies in either the first or the second quadrant, and it is negative when $\vec{A}$ lies in either the third or the fourth quadrant.

Hint A.2.2 Determine the sign of the x component of $\vec{F}_1$

Since $\vec{F}_1$ lies in the second quadrant, its x component is _____.

ANSWER:

- ☐ positive
☒ negative
☐ zero

Express your answer in newtons.

ANSWER:

$$F_{1x} = F_1 \cos(\pi - \alpha) \text{ N} = -3.80 \text{ N}$$

$$\therefore F_{1x} = -9 \text{ N} \cos 65^\circ = -3.80 \text{ N}$$

$$F_{1y} = 9 \text{ N} \sin 65^\circ = 8.16 \text{ N}$$

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