

## Holt Physics

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

The muscle responsible for closing the mouth is the strongest muscle in the human body. It can exert a force greater than that exerted by a man lifting a mass of 400 kg. Richard Hoffman of Florida recorded the force of biting at  $4.33 \times 10^3$  N. If each force shown in the diagram below has a magnitude equal to the force of Hoffman's bite, determine the net force.

**SOLUTION****1. CONCEPTS**

Define the problem, and identify the variables.

Given:

$$F_1 = -4.33 \times 10^3 \text{ N}$$

$$F_2 = 4.33 \times 10^3 \text{ N}$$

$$F_3 = 4.33 \times 10^3 \text{ N}$$

Determine:

$$F_{\text{net}} = ? \quad \theta_{\text{net}} = ?$$

Diagram:

**2. PLAN**

Select a coordinate system, and apply it to the free-body diagram. Let  $F_1$  be along the negative  $y$ -axis and  $F_2$  be along the positive  $x$ -axis. Now  $F_3$  must be resolved into  $x$  and  $y$  components.

**3. CALCULATE**

Find the  $x$  and  $y$  components of all vectors. As indicated in the sketch, the angle between  $F_3$  and the  $x$ -axis is  $60.0^\circ$ . Because this angle is in the quadrant bounded by the positive  $x$ -axis and negative  $y$ -axis, it has a negative value.

$$F_{3x} = F_3 \cos \theta = (4.33 \times 10^3 \text{ N}) [\cos (-60.0^\circ)] = 2.16 \times 10^3 \text{ N}$$

$$F_{3y} = F_3 \sin \theta = (4.33 \times 10^3 \text{ N}) [\sin (-60.0^\circ)] = -3.75 \times 10^3 \text{ N}$$

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

$$\Sigma F_x = F_2 + F_{3x} = F_{\text{net}x}$$

$$\Sigma F_x = 4.33 \times 10^3 \text{ N} + 2.16 \times 10^3 \text{ N} = 6.49 \times 10^3 \text{ N}$$

$$\Sigma F_y = F_1 + F_{3y} = F_{\text{net}y}$$

$$\Sigma F_y = (-4.33 \times 10^3 \text{ N}) + (-3.75 \times 10^3 \text{ N}) = -8.08 \times 10^3 \text{ N}$$

Find the net-external force.

Use the Pythagorean theorem to calculate  $F_{\text{net}}$ . Use  $\theta_{\text{net}} = \tan^{-1} \left( \frac{F_{\text{net}y}}{F_{\text{net}x}} \right)$  to find the angle between the net force and the  $x$ -axis.

$$F_{\text{net}} = \sqrt{F_{\text{net}x}^2 + F_{\text{net}y}^2}$$

$$F_{\text{net}} = \sqrt{(6.49 \times 10^3 \text{ N})^2 + (-8.08 \times 10^3 \text{ N})^2} = \sqrt{1.87 \times 10^7 \text{ N}^2}$$

$$F_{\text{net}} = \boxed{4.33 \times 10^3 \text{ N}}$$

# Holt Physics Problem 4a Answers

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web write the block diagram which shows main components in an optical fiber communication link explain briefly write the expression for channel capacity what is wdm explain briefly draw the attenuation curve with respect to wavelength and show the three main windows of optical fiber communication and their wavelengths

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