

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 as 4.33×10^3 N. If each force shown in the diagram below has a magnitude equal to the force of Hoffman's bite, determine the net force.

DEFINITION**1. GIVEN:**

Define the problem, and identify the variables.

Given: $F_1 = -4.33 \times 10^3$ N
 $F_2 = 4.33 \times 10^3$ N
 $F_3 = 4.33 \times 10^3$ N

Unknown: $F_{\text{net}} = ?$ $\theta_{\text{net}} = ?$

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° . Because this angle is in the quadrant bounded by the positive x 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.

For the x -direction: $\Sigma F_x = F_2 + F_{3x} = F_{\text{net}x}$

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

For the y -direction: $\Sigma F_y = F_1 + F_{3y} = F_{\text{net}y}$

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

Find the net external force.

Use the Pythagorean theorem to calculate F_{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.

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

$$F_{\text{net}} = \sqrt{(6.49 \times 10^3 \text{ N})^2 + (-8.08 \times 10^3 \text{ N})^2} = \sqrt{1.87 \times 10^8 \text{ N}^2}$$

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

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