

- 1.71. **IDENTIFY:** Vector addition. One force and the vector sum are given; find the second force.
SET UP: Use components. Let $+y$ be upward.

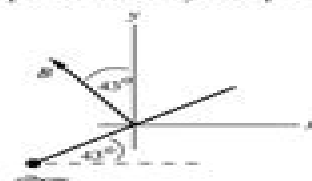


Figure 1.71a

\vec{B} is the force the biceps exerts.

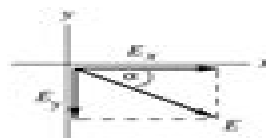
\vec{E} is the force the elbow exerts. $\vec{E} + \vec{B} = \vec{R}$, where $R = 132.5 \text{ N}$ and is upward.

$$E_x = R_x - B_x, E_y = R_y - B_y$$

EXECUTE: $B_x = -B \sin 43^\circ = -158.2 \text{ N}$, $B_y = +B \cos 43^\circ = +169.7 \text{ N}$, $R_x = 0$, $R_y = +132.5 \text{ N}$

Then $E_x = +158.2 \text{ N}$, $E_y = -37.2 \text{ N}$.

$$E = \sqrt{E_x^2 + E_y^2} = 160 \text{ N};$$



$$\tan \alpha = |E_y/E_x| = 37.2/158.2$$

$$\alpha = 13^\circ, \text{ below horizontal}$$

Figure 1.71b

EVALUATE: The x -component of \vec{E} cancels the x -component of \vec{B} . The resultant upward force is less than the upward component of \vec{B} , so E_y must be downward.

- 1.72. **IDENTIFY:** Find the vector sum of the four displacements.
SET UP: Take the beginning of the journey as the origin, with north being the y -direction, east the x -direction, and the z -axis vertical. The first displacement is then $(-30 \text{ m})\hat{k}$, the second is $(-15 \text{ m})\hat{j}$, the third is $(200 \text{ m})\hat{i}$, and the fourth is $(100 \text{ m})\hat{j}$.
EXECUTE: (a) Adding the four displacements gives
 $(-30 \text{ m})\hat{k} + (-15 \text{ m})\hat{j} + (200 \text{ m})\hat{i} + (100 \text{ m})\hat{j} = (200 \text{ m})\hat{i} + (85 \text{ m})\hat{j} - (30 \text{ m})\hat{k}$.
 (b) The total distance traveled is the sum of the distances of the individual segments:
 $30 \text{ m} + 15 \text{ m} + 200 \text{ m} + 100 \text{ m} = 345 \text{ m}$. The magnitude of the total displacement is:

$$D = \sqrt{D_x^2 + D_y^2 + D_z^2} = \sqrt{(200 \text{ m})^2 + (85 \text{ m})^2 + (-30 \text{ m})^2} = 219 \text{ m}.$$

EVALUATE: The magnitude of the displacement is much less than the distance traveled along the path.

- 1.73. **IDENTIFY:** The sum of the four displacements must be zero. Use components.
SET UP: Call the displacements \vec{A} , \vec{B} , \vec{C} , and \vec{D} , where \vec{D} is the final unknown displacement for the return from the treasure to the oak tree. Vectors \vec{A} , \vec{B} , and \vec{C} are sketched in Figure 1.73a.
 $\vec{A} + \vec{B} + \vec{C} + \vec{D} = 0$ says $A_x + B_x + C_x + D_x = 0$ and $A_y + B_y + C_y + D_y = 0$. $A = 825 \text{ m}$, $B = 1250 \text{ m}$, and $C = 1000 \text{ m}$. Let $+x$ be eastward and $+y$ be north.

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