

Worksheet 2.1.1 - Distances and Trigonometric Equations (continued)
 (Show all steps - include units and answers with the correct number of significant figures)

1. An airplane leaves the ground at an angle of 2.5° and travels 1000 m.

- a. Find the horizontal distance.

$\cos 2.5^\circ = \frac{\text{adj}}{\text{hyp}}$
 $\cos 2.5^\circ = \frac{x}{1000}$
 $x = 1000 \cos 2.5^\circ$
 $x = 999.046$
 $x \approx 1000$

- b. Find the vertical distance.

$\sin 2.5^\circ = \frac{\text{opp}}{\text{hyp}}$
 $\sin 2.5^\circ = \frac{y}{1000}$
 $y = 1000 \sin 2.5^\circ$
 $y = 43.301$
 $y \approx 43.3$

2. A person stands on a hill and looks down at a point on the ground. The angle of depression is 30°. The distance from the person to the point is 100 m.

- a. Find the horizontal distance.

$\cos 30^\circ = \frac{\text{adj}}{\text{hyp}}$
 $\cos 30^\circ = \frac{x}{100}$
 $x = 100 \cos 30^\circ$
 $x = 86.6025$
 $x \approx 86.6$

- b. Find the vertical distance.

$\sin 30^\circ = \frac{\text{opp}}{\text{hyp}}$
 $\sin 30^\circ = \frac{y}{100}$
 $y = 100 \sin 30^\circ$
 $y = 50$
 $y \approx 50$

3. A person stands on a hill and looks down at a point on the ground. The angle of depression is 40°. The distance from the person to the point is 100 m.

- a. Find the horizontal distance.

$\cos 40^\circ = \frac{\text{adj}}{\text{hyp}}$
 $\cos 40^\circ = \frac{x}{100}$
 $x = 100 \cos 40^\circ$
 $x = 76.6044$
 $x \approx 76.6$

- b. Find the vertical distance.

$\sin 40^\circ = \frac{\text{opp}}{\text{hyp}}$
 $\sin 40^\circ = \frac{y}{100}$
 $y = 100 \sin 40^\circ$
 $y = 64.2788$
 $y \approx 64.3$

4. A person stands on a hill and looks down at a point on the ground. The angle of depression is 50°. The distance from the person to the point is 100 m.

- a. Find the horizontal distance.

$\cos 50^\circ = \frac{\text{adj}}{\text{hyp}}$
 $\cos 50^\circ = \frac{x}{100}$
 $x = 100 \cos 50^\circ$
 $x = 64.2788$
 $x \approx 64.3$

- b. Find the vertical distance.

$\sin 50^\circ = \frac{\text{opp}}{\text{hyp}}$
 $\sin 50^\circ = \frac{y}{100}$
 $y = 100 \sin 50^\circ$
 $y = 76.6044$
 $y \approx 76.6$

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JE Gale



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