

Worksheet 3.4.11 - Distances and Trigonometric Equations (continued)
 (Show all steps - include units and answers with $^{\circ}$ for angles, km , km^2 as needed)

3. An airplane leaves the ground at an angle of 2.5° and travels about 100 km.

- a. Find the horizontal distance.

$\cos 2.5^{\circ} = \frac{\text{adj}}{\text{hyp}}$
 $\cos 2.5^{\circ} = \frac{x}{100}$
 $x = 100 \cos 2.5^{\circ}$
 $x = 99.97$
 $x \approx 100$ km

- b. Find the vertical distance.

$\sin 2.5^{\circ} = \frac{\text{opp}}{\text{hyp}}$
 $\sin 2.5^{\circ} = \frac{y}{100}$
 $y = 100 \sin 2.5^{\circ}$
 $y = 4.36$ km

4. A person goes from the airport along a road to the beach. The road is 10 km long and the beach is 5 km from the airport.

- a. Find the distance from the airport to the beach.

$\cos 45^{\circ} = \frac{\text{adj}}{\text{hyp}}$
 $\cos 45^{\circ} = \frac{x}{10}$
 $x = 10 \cos 45^{\circ}$
 $x = 7.07$ km

- b. Find the distance from the airport to the beach.

$\sin 45^{\circ} = \frac{\text{opp}}{\text{hyp}}$
 $\sin 45^{\circ} = \frac{y}{10}$
 $y = 10 \sin 45^{\circ}$
 $y = 7.07$ km

5. A person goes from the airport along a road to the beach. The road is 10 km long and the beach is 5 km from the airport.

- a. Find the distance from the airport to the beach.

$\cos 45^{\circ} = \frac{\text{adj}}{\text{hyp}}$
 $\cos 45^{\circ} = \frac{x}{10}$
 $x = 10 \cos 45^{\circ}$
 $x = 7.07$ km

- b. Find the distance from the airport to the beach.

$\sin 45^{\circ} = \frac{\text{opp}}{\text{hyp}}$
 $\sin 45^{\circ} = \frac{y}{10}$
 $y = 10 \sin 45^{\circ}$
 $y = 7.07$ km

6. A person goes from the airport along a road to the beach. The road is 10 km long and the beach is 5 km from the airport.

$\cos 45^{\circ} = \frac{\text{adj}}{\text{hyp}}$
 $\cos 45^{\circ} = \frac{x}{10}$
 $x = 7.07$ km

- Find the distance.

$\sin 45^{\circ} = \frac{\text{opp}}{\text{hyp}}$
 $\sin 45^{\circ} = \frac{y}{10}$
 $y = 7.07$ km

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Christian G. Meyer



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