

Evaluate each composite trigonometric expression.

7. $\tan\left(\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)\right)$ 8. $\cos\left(\sin^{-1}\left(\frac{1}{\sqrt{2}}\right)\right)$ 9. $\sin\left(\tan^{-1}\left(-\frac{1}{\sqrt{3}}\right)\right)$ **10.** $\sin^{-1}(\cos 0^{\circ})$ **11.** $\tan^{-1}(\sin 0^{\circ})$ **12.** $\sin^{-1}(\sin 90^{\circ})$



Find the measure of each angle to the nearest whole degree.

- 13. Find the measure of the smallest angle in a right triangle with sides of 3, 4, and 5 centimeters.
- **14.** What is the angle between the bottom of the ladder and the ground as shown at right?

15. Find the angle at the peak of the roof as shown at right.



16. The hypotenuse of a right triangle is 3 times as long as the shorter leg. Find the measure of the angle between the shorter leg and the hypotenuse.