

RIGHT TRIANGLE TRIGONOMETRY

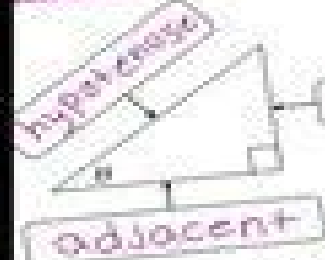
Right Triangle Trigonometry

Functions

Functions relate an **angle** of a **right** triangle to

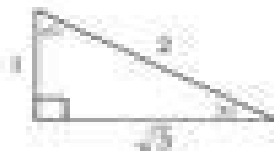
all four side lengths. The Greek letter

theta (θ) is used to **measure** an **acute**



Trigonometric Function	Symbol	Definition
Sine	$\sin$	$\frac{\text{opp}}{\text{hyp}}$
Secant	$\sec$	$\frac{\text{hyp}}{\text{adj}}$
Cosine	$\cos$	$\frac{\text{adj}}{\text{hyp}}$
Cotangent	$\cot$	$\frac{\text{adj}}{\text{opp}}$

Trig Ratios for Special Angles



	30°	45°
$\sin \theta$	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$
$\cos \theta$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$
$\tan \theta$	$\frac{1}{\sqrt{3}}$	1
$\csc \theta$	2	$\sqrt{2}$
$\sec \theta$	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$
$\cot \theta$	$\sqrt{3}$	1

EXAMPLE 2 Find the value of θ for the right triangle.

Which sides are given?

opp & hyp

Solving Triangles

Finding all of the unknown side **lengths** and **angles** is called **solving the triangle**.

Find Side Lengths	Use the Pythagorean Theorem .
Find Angle Measures	Use complementary angles .

Find θ if $\sin \theta = x$.

$$\theta = \sin^{-1} x$$

Inverse of the Ratio

$$\theta = \cos^{-1} x$$

EXAMPLE 3 Solve the triangle.

$$180 - 90 - 42 = 48$$

$$\tan 42 = \frac{a}{12}$$

$$\cos 42 = \frac{12}{c}$$

$$a \approx 8.30$$

$$c \cos 42 = 12$$

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Algebra 2 Trigonometry Homework Answers Lesson 4

Unit 8

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