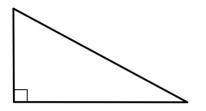
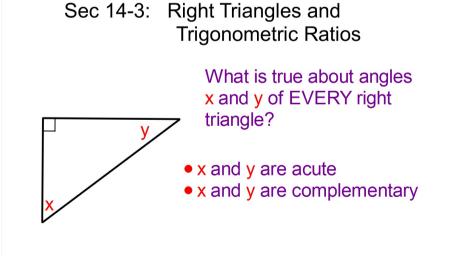


Side a is opposite Angle A Side b is opposite Angle B Side c is opposite Angle C

Sides and Angles of triangles:

Angles are labeled with: Capital Letters A B C
Sides are labeled with: lower case Letters a b c





Trigonometry

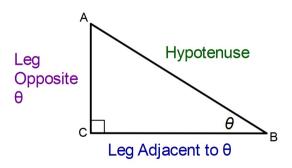
"branch of mathematics that deals with relations between sides and angles of triangles,"

from Modern Latin trigonometria

from Greek trigonon

"triangle" (from tri- "three," + gonia "angle,") + metron "a measure".

Greek letter - Theta variable commonly used to represent an angle.



Find each to the nearest hundredth.

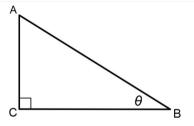
Cos A =
$$(0552^{\circ})$$

= 0.62
Sin A = $5/n52^{\circ}$
= 0.79
Tan B = $76/38^{\circ}$
= 0.78

When you have an angle measured in degrees you must be sure that your calculator is in "Degree Mode".

Right Triangle Trigonometry:

SOHCAHTOA SOHCAHTOA



Sine of an angle

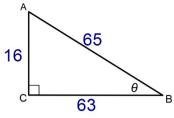
$$Sin\theta = \frac{\text{Leg Opposite }\theta}{\text{Hypotenuse}}$$
$$= \frac{AC}{AB}$$

$$Cosθ = \frac{\text{Leg Adjacent to θ}}{\text{Hypotenuse}}$$
$$= \frac{BC}{AB}$$

Tan
$$\theta = \frac{\text{Leg Opposite } \theta}{\text{Leg Adjacent to } \theta}$$
$$= \frac{AC}{BC}$$

Write each trigonomeric ratio as a fraction.

Sin B =



Soft CAH TOA

Tan B =
$$\frac{16}{63}$$
 Cos A = $\frac{16}{65}$

$$\cos A = \frac{16}{6\sqrt{5}}$$

