St. Peter Catholic High School
Algonquin College
MCT4C
Mr. M. Couturier
www.habfanforever.com

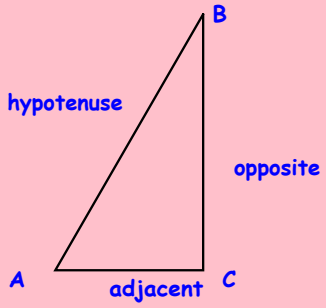
Jan 27-10:05 AM

§4.4 The Right Triangle

$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$

$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$

$\tan A = \frac{\text{opposite}}{\text{adjacent}}$

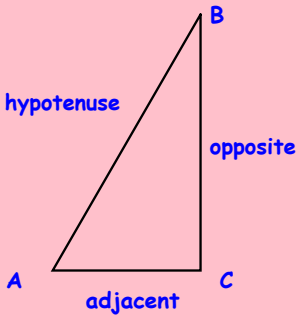


Jan 27-10:04 AM

$\csc A = \frac{\text{hypotenuse}}{\text{opposite}}$

$\sec A = \frac{\text{hypotenuse}}{\text{adjacent}}$

$\cot A = \frac{\text{adjacent}}{\text{opposite}}$



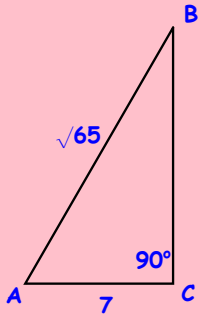
Feb 10-9:07 AM

Find the following trigonometric ratios in exact form:

a =

sin A =
cos A =
tan A =

sin B =
cos B =
tan B =



Jan 27-10:08 AM

How to solve a right triangle problem:

Sketch the triangle and label known and unknown side lengths and angles.

Find a trigonometric ratio for which the unknown side lengths and/or angles are included with the known side lengths and angles.

Verify the solution using the Pythagorean Theorem and/or the sum of the angles in a triangle (180°).

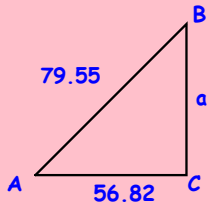
Jan 27-10:48 AM

Solve for all the unknowns in this triangle:

a =

csc A =
sec A =
cot A =

csc B =
sec B =
cot B =



Jan 27-10:45 AM

Homework:

§4.4 #9-27 (every other odd), 37

Feb 1-12:10 PM