GEOMETRIC FUNCTIONS SUMMARY

Definitions:

Related Angle is always positive. Angle between vector and x-axis.

Initial Side beginning side of an angle; often positive x-axis

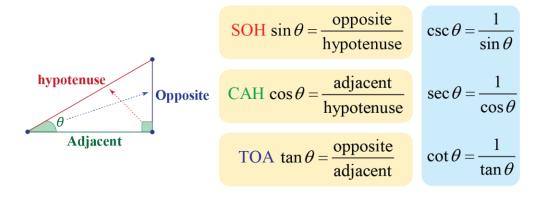
Terminal Side other side to create the angle

Coterminal Angles angles that end up in same terminal arm position (i.e. 50 ° and -310 °; 220 ° and -140 °)

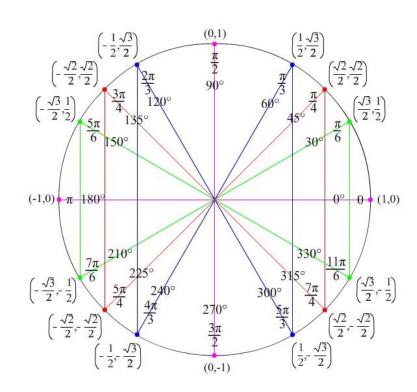
Trigonometric Functions

Trigonometric Ratios

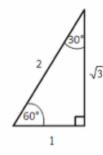
sin, cos, tan, sec, csc, cot

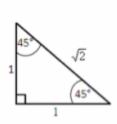


Unit Circle



Reference Triangles





Trigonometric Equations

Solving for $\boldsymbol{\theta}$ when given an equation.

L50 screenshot

Solving for a Multiple of $\boldsymbol{\theta}$ for an Arguments

L52 example

Factoring out Trig Functions

L60 example

Factoring out Radicals

L65 screenshot