

Reciprocal identities

$$\csc x = 1/\sin x$$

$$\sec x = 1/\cos x$$

$$\cot x = 1/\tan x$$

Cotangent/Tangent

$$\tan x = \sin x/\cos x$$

$$\cot x = \cos x/\sin x$$

Sum & Difference Identities

sin sum/differences...

cos sum/differences...

tan sum/differences...

Use these to find (a) any trig function, given two known functions or (b) a 15° function that isn't on the 16-point unit circle.

Pythagorean Identities

$$\sin^2 x + \cos^2 x = 1$$

$$\tan^2 x + 1 = \sec^2 x$$

$$1 + \cot^2 x = \csc^2 x$$

You can convert the first identity into the second and third by dividing both sides by $\cos^2 x$ or $\sin^2 x$, respectively.

Half-angle identities

Double-angle identities



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