

Reciprocal identities

$$\begin{aligned}\csc x &= 1/\sin x \\ \sec x &= 1/\cos x \\ \cot x &= 1/\tan x\end{aligned}$$

Cotangent/Tangent

$$\begin{aligned}\tan x &= \sin x/\cos x \\ \cot x &= \cos x/\sin x\end{aligned}$$

Sum & Difference Identities

$$\begin{aligned}\sin \text{ sum/differences...} \\ \cos \text{ sum/differences...} \\ \tan \text{ sum/differences...}\end{aligned}$$

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

Pythagorean Identities

$$\begin{aligned}\sin^2 x + \cos^2 x &= 1 \\ \tan^2 x + 1 &= \sec^2 x \\ 1 + \cot^2 x &= \csc^2 x\end{aligned}$$

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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