Identities

 $\sec x = 1/\cos x$

csc x = 1/sin x

cot= 1/tan x

Cotangent/tangent

tan x = sin x/cos x

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

Reciprocal Identities

$$sin\theta = \frac{1}{csc\theta}$$
 $cos\theta = \frac{1}{sec\theta}$ $tan\theta = \frac{1}{cot\theta}$ $csc\theta = \frac{1}{sin\theta}$ $sec\theta = \frac{1}{cos\theta}$ $cot\theta = \frac{1}{tan\theta}$

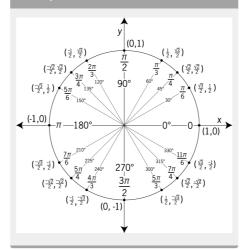
Domain and Range

Domain: The domain of a function is the set of all possible input values (often the "x" variable), which produce a valid output from a particular function. It is the set of all real numbers for which a function is mathematically defined. Range: The range is the set of all possible output values (usually the variable y, or sometimes expressed as f(x)), which result from using a particular function.

By **Jcardona**

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Unit Square



Logarithmic and Exponential Equations

y= ln x

y= b^x

Half-Angle Identities

 $\begin{aligned} &\sin(\frac{a}{2}) = \pm \sqrt{\frac{(1-\cos a)}{2}} \\ &\cos(\frac{a}{2}) = \pm \sqrt{\frac{(1+\cos a)}{2}} \\ &\tan(\frac{a}{2}) = \frac{1-\cos a}{\sin a} = \frac{\sin a}{1+\cos a} \end{aligned}$

Double-angle Identities

 $\begin{aligned} & 33 & \sin\left(\frac{\theta}{3}\right) = 3 \sqrt{\frac{1-\cos\theta}{2}} & \sin^{3}\theta = \frac{1-\cos2\theta}{2} \\ & 34 & \cos\left(\frac{\theta}{2}\right) = 2 \sqrt{\frac{1+\cos\theta}{2}} & \cos^{2}\theta = \frac{1+\cos2\theta}{2} \\ & 35 & \cos\left(\frac{\theta}{3}\right) = 3 \sqrt{\frac{1-\cos\theta}{1+\cos\theta}} & \cos\left(\frac{\theta}{2}\right) = \frac{1-\cos\theta}{\sin\theta} + \frac{\sin\theta}{1+\cos\theta} \end{aligned}$

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