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

## 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
cheatography.com/jcardona/

Unit Square


Logarithmic and Exponential Equations
$y=\ln x$
$y=b^{\wedge} x$

Half-Angle Identities

$$
\begin{aligned}
& \sin \left(\frac{\pi}{2}\right)- \pm \sqrt{\frac{11-\cos 0}{2}} \\
& \cos \left(\frac{1}{2}=+\sqrt{\frac{1}{1+\operatorname{tacose}}}\right. \\
& \tan \left(\frac{a}{2}=\frac{1-\cos a}{\sin a}=\frac{\sin a}{1+\operatorname{tin} a}\right.
\end{aligned}
$$

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## Double-angle Identities

```
x =(0)+ +\sqrt{}{\frac{2m}{2}}
4- -(%)
```



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