6 Trignometric Functions

| $\operatorname{Sin} £=o / h$ | $\operatorname{Csc} £=h / o$ |
| :--- | :--- |
| $\operatorname{Tan} £=o / a$ | $\operatorname{Cot} £=a / o$ |
| $\operatorname{Cos} £=a / h$ | $\operatorname{Sec} £=h / a$ |

General Definitions of the 6 Trig Functions

| $\operatorname{Sin} £=y / r$ | Csc $£=r / y$ |
| :--- | :--- |
| $\operatorname{Cos} £=x / r$ | Sec $£=r / x$ |
| $\operatorname{Tan} £=y / x$ | Tan $£=x / y$ |

Unit Circle


## Vocabulary

Initial Side The fixed ray of an angle
Terminal Side The rotated ray of an angle
Standard Position Angle whose vertex is on the origin and initial side lies on the $x$-axis
Coterminal Two angles that have the same terminal side. Coterminal $=$ angle + /-
[multiple of 360]
Radian The measure of an angle in standard position whose terminal side intercepts an arc of length $r$

Sector A section of a circle bound by two radii
Central Angle The internal angle of a sector
Reference Angle the angle formed by the
terminal side of another angle and the $x$-axis

Arc Length and Area of a Sector
Arc Length
$\mid s=r \beta$
Area

$$
0.5 \times r^{\wedge} 2 \times \beta
$$

## Degrees to Radians

## Degrees to Radians

Degree * [(mradians)/180]
Radians to Degrees
Radian* [180/(Tradians)]


Published 11th March, 2019.
Last updated 11th March, 2019.
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Graphing a Tangent Function


## Graphing a Cotangent Function



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