Cheatography

Trignometric Ratios and Functions Cheat Sheet by ALittleBookish via cheatography.com/77992/cs/19065/

Arc Length

s = rB

0.5 x r^2 x B

Degrees to Radians

Radians to Degrees

Degree * [(πradians)/180]

Radian* [180/(mradians)]

Sketching a Sine Curve Graph

 $y = 2 \sin 2x$

5 points; midline - max- midline -

1. Find amplitude and

period. Plot 5 points: Midline points

Amplitude points Max

Beginning

End

Min

3. Sketch curve.

Amplitude = |a|Period = $(2\pi) \div |b|$

Middle

2

Amplitude = 2

 $Period = \frac{2\pi}{2} = \pi$

min - midline

Area

6 Trignometric Functions	
$Sin \mathfrak{L} = o/h$	$Csc \mathfrak{L} = h/o$
Tan $\mathfrak{L} = o/a$	$Cot \mathfrak{L} = a/o$
Cos £ = a/h	Sec $\mathfrak{L} = h/a$
General Definitions of	the 6 Trig Functions
General Definitions of Sin $\mathfrak{L} = y/r$	the 6 Trig Functions Csc £ = r/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

By ALittleBookish

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Graphing a Tangent Function







Graphing Cosine Functions

