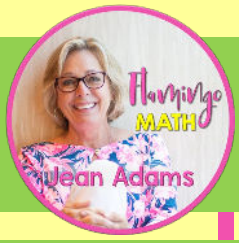
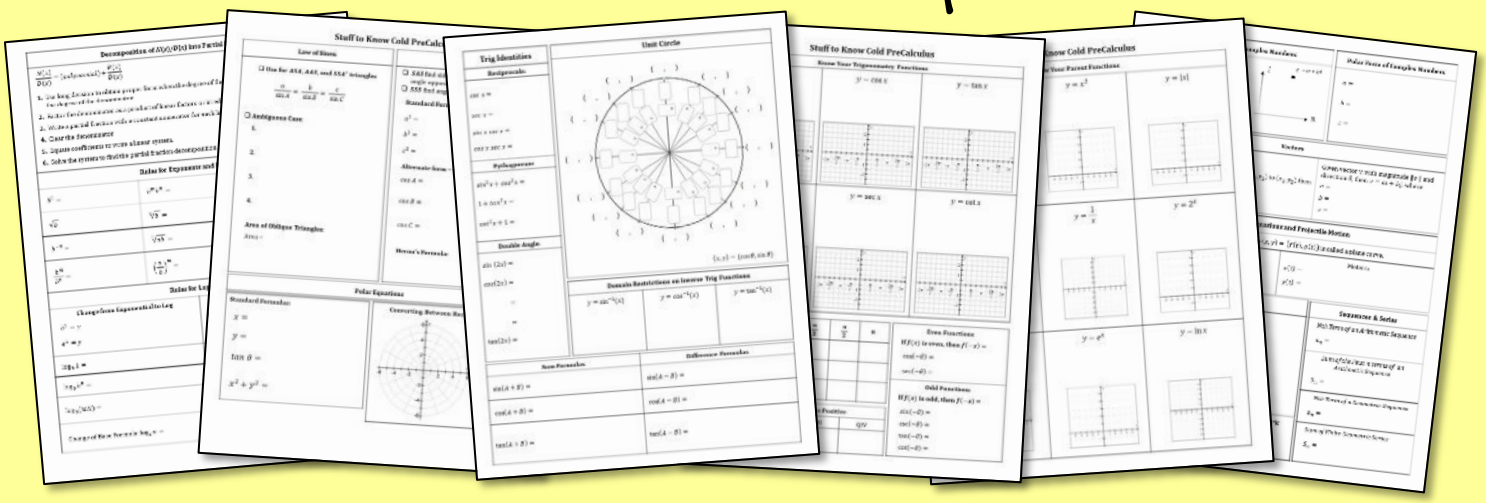
Precalculus

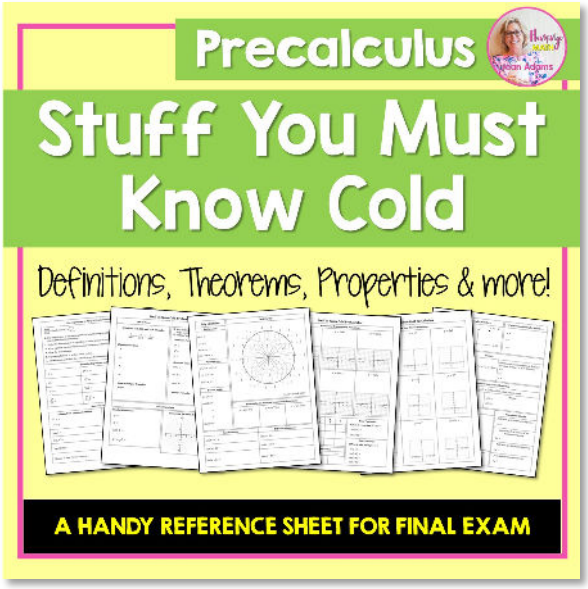


Stuff You Must Know Cold

Definitions, Theorems, Properties & more!



A HANDY REFERENCE SHEET FOR FINAL EXAM



PRECALCULUS
STUFF YOU MUST KNOW COLD

This is a handy reference sheet to help students prepare for the Precalculus Honors Final Exam

Grab this great **STUFF YOU MUST KNOW COLD** handout. There are seven pages of everything important for a **PRECALCULUS HONORS STUDENT** to know backwards and forwards…definitions, theorems, properties, family of functions and more.

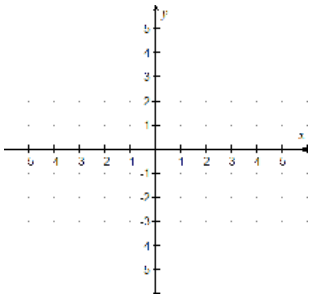
It's a handy reference sheet. Get your students ready from the beginning of school. There is a a BLANK SET where students can complete the information from memory and a completed solution set for the teacher.

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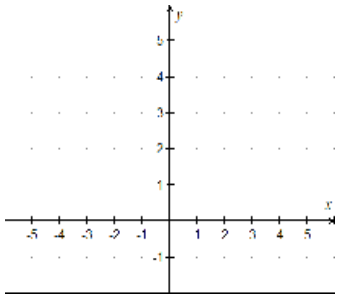
Stuff to Know Cold PreCalculus

Know Your Parent Functions

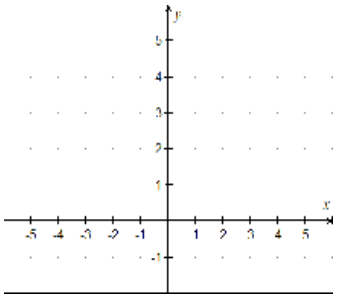
$y = x$



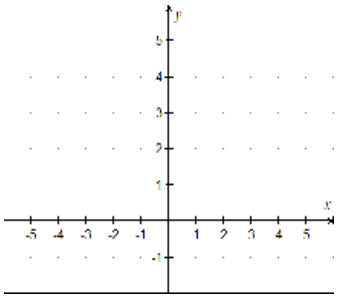
$y = x^2$



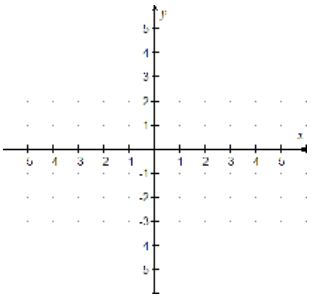
$y = |x|$



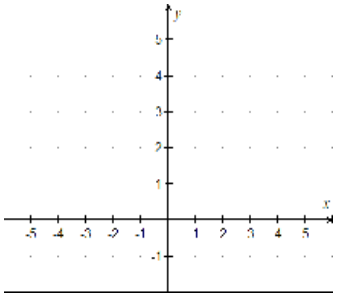
$y = \sqrt{x}$



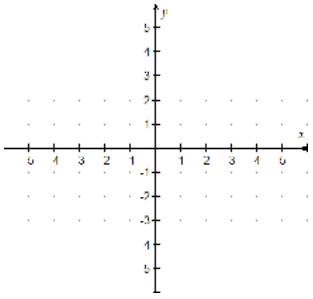
$y = \frac{1}{x}$



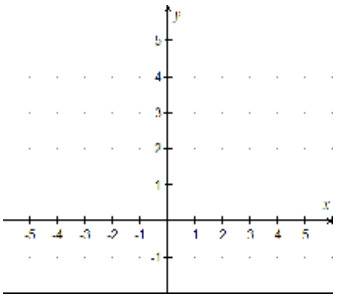
$y = 2^x$



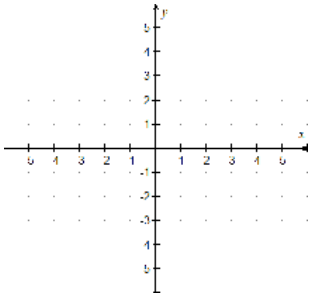
$y = \log_2 x$



$y = e^x$



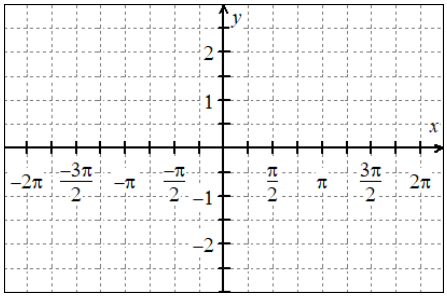
$y = \ln x$



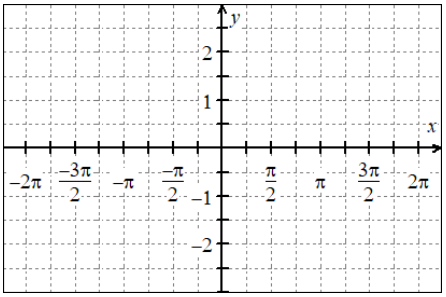
Stuff to Know Cold PreCalculus

Know Your Trigonometry Functions

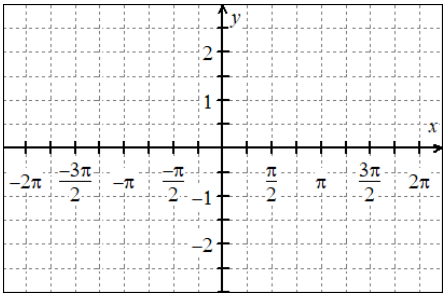
$y = \sin x$



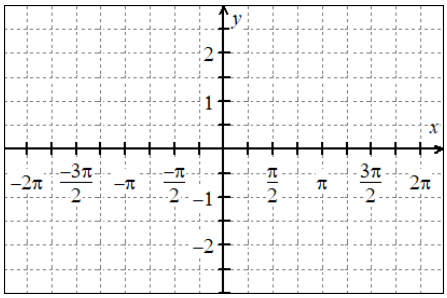
$y = \cos x$



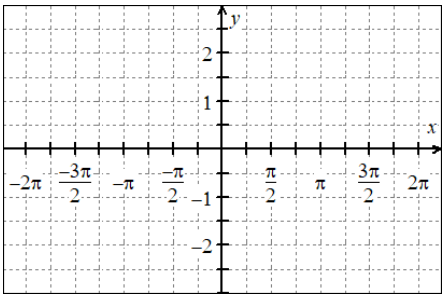
$y = \tan x$



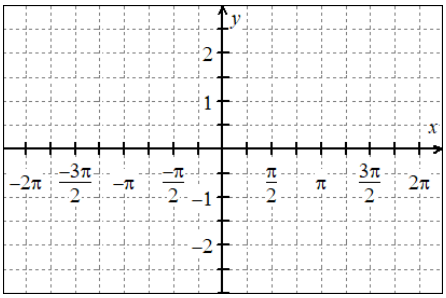
$y = \csc x$



$y = \sec x$



$y = \cot x$



θ Radians	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π
$\sin\theta$					
$\cos\theta$					
$\tan\theta$					

Where Trig Functions are Positive			
QI	QII	QIII	QIV

Even Functions

If $f(x)$ is even, then $f(-x) =$

$\cos(-\theta) =$

$\sec(-\theta) =$

Odd Functions

If $f(x)$ is odd, then $f(-x) =$

$\sin(-\theta) =$

$\csc(-\theta) =$

$\tan(-\theta) =$

$\cot(-\theta) =$

Trig Identities

Reciprocals:

$csc\ x =$

$sec\ x =$

$sin\ x\ csc\ x =$

$cos\ x\ sec\ x =$

Pythagorean:

$sin^2x + cos^2x =$

$1 + tan^2x =$

$cot^2x + 1 =$

Double Angle:

$sin\ (2x) =$

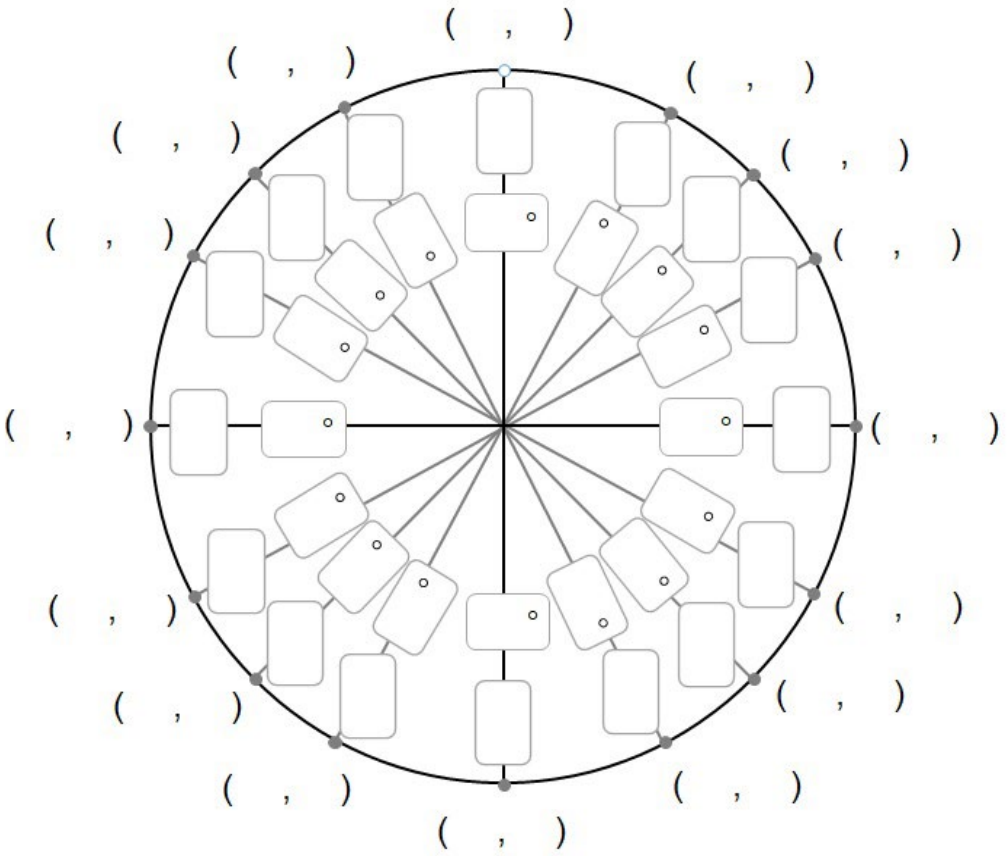
$cos(2x) =$

$=$

$=$

$\tan(2x) =$

Unit Circle



$(x, y) = (\cos\theta, \sin\theta)$

Domain Restrictions on Inverse Trig Functions

$y = \sin^{-1}(x)$	$y = \cos^{-1}(x)$	$y = \tan^{-1}(x)$

Sum Formulas	Difference Formulas
$\sin(A + B) =$	$\sin(A - B) =$
$\cos(A + B) =$	$\cos(A - B) =$
$\tan(A + B) =$	$\tan(A - B) =$