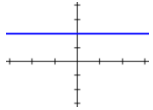
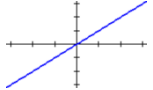
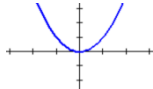

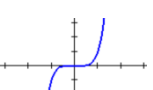
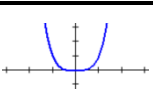
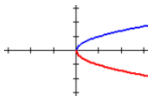
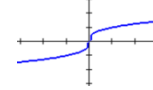
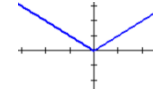
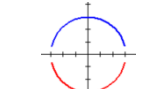
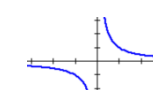
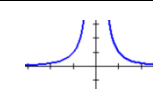

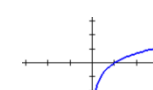
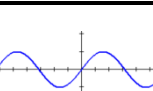
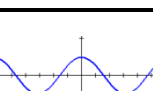
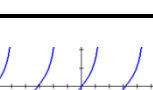
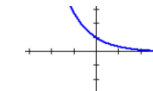
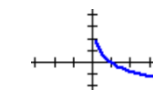
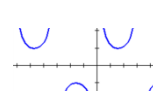
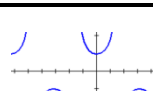
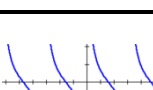


CATALOG OF CURVES

FAMILY	FUNCTION	
Constant	$f(x) = a$	
Linear	$f(x) = x$	
Quadratic	$f(x) = x^2$	
Cubic	$f(x) = x^3$	
Power <i>n</i> odd	$f(x) = x^n$	
Power <i>n</i> even	$f(x) = x^n$	

FAMILY	FUNCTION	
Square Root	$f(x) = \pm\sqrt{x}$	
Cube Root	$f(x) = \sqrt[3]{x}$	
Absolute Value	$f(x) = x $	
Circle	$f(x) = \pm\sqrt{a^2 - x^2}$	
Rational <i>n</i> odd	$f(x) = \frac{1}{x^n}$	
Rational <i>n</i> even	$f(x) = \frac{1}{x^n}$	

Exponential	$f(x) = e^x$	
Natural Log	$f(x) = \ln x$	
Sine	$f(x) = \sin x$	
Cosine	$f(x) = \cos x$	
Tangent	$f(x) = \tan x$	

Exponential	$f(x) = e^{-x}$	
Natural Log	$f(x) = -\ln x$	
Cosecant	$f(x) = \csc x$	
Secant	$f(x) = \sec x$	
Cotangent	$f(x) = \cot x$	

TRIGONOMETRIC IDENTITIES

RECIPROCAL IDENTITIES

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

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

QUOTIENT IDENTITIES

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

EVEN/ODD IDENTITIES

$$\sin(-\theta) = -\sin \theta \quad \csc(-\theta) = -\csc \theta$$

$$\cos(-\theta) = \cos \theta \quad \sec(-\theta) = \sec \theta$$

$$\tan(-\theta) = -\tan \theta \quad \cot(-\theta) = -\cot \theta$$

COFUNCTION IDENTITIES

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos \theta \quad \csc\left(\frac{\pi}{2} - \theta\right) = \sec \theta$$

$$\cos\left(\frac{\pi}{2} - \theta\right) = \sin \theta \quad \sec\left(\frac{\pi}{2} - \theta\right) = \csc \theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot \theta \quad \cot\left(\frac{\pi}{2} - \theta\right) = \tan \theta$$

PYTHAGOREAN IDENTITIES

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

UNIT CIRCLE

