TRIGONOMETRIC FUNCTIONS REFERENCE

Standard Form: $y = A \sin(B(x - C)) + D$

Sine y = sin(x)

Domain: (-âˆž, âˆž)
Range: [-1, 1]
Period: 2Ï€
Amplitude: 1
Cosine y = cos(x)

Domain: (-âˆž, âˆž)
Range: [-1, 1]
Period: 2Ï€
Amplitude: 1
Tangent y = tan(x)

Domain: x â‰ Ï€/2 + nÏ€
Range: (-âˆž, âˆž)
Period: Ï€
Vertical Asymp: x = Ï€/2
Cosecant y = csc(x)

Domain: x â‰ nÏ€
Range: (-âˆž, -1] âˆª [1, âˆž)
Period: 2Ï€
Vertical Asymp: x = nÏ€

A = Amplitude | P = 2Ï€/B (Period) | C = Phase Shift | D = Vertical Shift