

TRIGONOMETRY REFERENCE: WAVE FUNCTIONS

Sine $y = \sin(\theta)$

Period: 2π

Amplitude: 1

Domain: $(-\infty, \infty)$

Range: $[-1, 1]$

Cosine $y = \cos(\theta)$

Period: 2π

Amplitude: 1

Domain: $(-\infty, \infty)$

Range: $[-1, 1]$

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

- **A:** Amplitude (Vertical stretch)
- **B:** Period Factor (Period = $2\pi/B$)
- **C:** Phase Shift (Horizontal translation)
- **D:** Vertical Shift (Midline)

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