

# TRANSFORMATIONS OF SINE & COSINE FUNCTIONS

**REFLECTIONS OF SINE & COSINE FUNCTIONS**

Steps for Graphing Transformations of Periodic Functions

- Step 1: Identify the amplitude, phase shift, and the vertical shift.
- Step 2: Divide the period by 4, and mark the midline.
- Step 3: Draw the midline.
- Step 4: Draw the peaks and troughs.
- Step 5: Draw the smooth curve.

Directions: Sketch 2 periods of the graph and identify the amplitude, period, phase shift, and midline.

1.  $y = 2 \sin(x - \pi) + 1$

Amplitude: 2    Period:  $2\pi$     Phase Shift:  $\pi$     Vertical Shift: 1

Domain:  $x \in \mathbb{R}$     Range:  $[-1, 3]$

2.  $y = 3 \cos(x + \pi) - 2$

Amplitude: 3    Period:  $2\pi$     Phase Shift:  $-\pi$     Vertical Shift: -2

Domain:  $x \in \mathbb{R}$     Range:  $[-5, 1]$

3.  $y = 1 \sin(x + \pi) + 3$

Amplitude: 1    Period:  $2\pi$     Phase Shift:  $-\pi$     Vertical Shift: 3

Domain:  $x \in \mathbb{R}$     Range:  $[2, 4]$

4.  $y = 4 \cos(x - \pi) - 1$

Amplitude: 4    Period:  $2\pi$     Phase Shift:  $\pi$     Vertical Shift: -1

Domain:  $x \in \mathbb{R}$     Range:  $[-5, 3]$

**GRAPHING SINE & COSINE FUNCTIONS**

Steps for Graphing Transformations of Periodic Functions

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- Step 2: Divide the period by 4, and mark the midline.
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**TRANSFORMATIONS OF SINE & COSINE FUNCTIONS**

Directions: Identify the amplitude, period, phase shift, and midline.

1.  $y = 2 \sin(x - \pi) + 1$

Amplitude: 2    Period:  $2\pi$     Phase Shift:  $\pi$     Vertical Shift: 1

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Amplitude: 3    Period:  $2\pi$     Phase Shift:  $-\pi$     Vertical Shift: -2

3.  $y = 1 \sin(x + \pi) + 3$

Amplitude: 1    Period:  $2\pi$     Phase Shift:  $-\pi$     Vertical Shift: 3

4.  $y = 4 \cos(x - \pi) - 1$

Amplitude: 4    Period:  $2\pi$     Phase Shift:  $\pi$     Vertical Shift: -1

5.  $y = 2 \sin(x - \pi) + 1$

Amplitude: 2    Period:  $2\pi$     Phase Shift:  $\pi$     Vertical Shift: 1

6.  $y = 3 \cos(x + \pi) - 2$

Amplitude: 3    Period:  $2\pi$     Phase Shift:  $-\pi$     Vertical Shift: -2

7.  $y = 1 \sin(x + \pi) + 3$

Amplitude: 1    Period:  $2\pi$     Phase Shift:  $-\pi$     Vertical Shift: 3

8.  $y = 4 \cos(x - \pi) - 1$

Amplitude: 4    Period:  $2\pi$     Phase Shift:  $\pi$     Vertical Shift: -1

Detailed answer keys are included!



# Graphing Sine And Cosine Functions Unit 04 Lesson 01

**Mike Jess**



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