

Step by Step!

Graphing Sine & Cosine Functions

Graphing Sine and Cosine Functions

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

1. Analyze the equation

- Amplitude: $|A|$ → the absolute value of the coefficient on the sine or cosine
- Phase Shift: $\frac{C}{B}$ → the horizontal distance from the y-axis to the first x-intercept
- Vertical Shift: D → the vertical distance from the x-axis to the midline

2. Determine whether the graph will be a sine or cosine function

- Sine function: $y = A \sin(B(x - C)) + D$
- Cosine function: $y = A \cos(B(x - C)) + D$

3. Determine the period of the graph and the equation of the midline

- Period: $\frac{2\pi}{|B|}$
- Vertical Shift: D

4. Determine the interval of the graph and the equation of the midline

- Interval: 2π
- Vertical Shift: D

5. Graph

Step 1: Label the x-axis with the period and the midline

Step 2: Graph the function

Step 3: Use the graph to determine the equation of the function

Step 4: Use the graph to determine the equation of the function

Step 5: Use the graph to determine the equation of the function

Representations of Cosine: Graphical Properties

- $y = \cos(x)$ → $y = \sin(x + \frac{\pi}{2})$
- $y = \cos(x)$ → $y = \sin(x - \frac{\pi}{2})$

Write an equation in terms of the reference angle θ for the angle θ in the interval $[0, 2\pi)$ if the reference angle is $\frac{\pi}{6}$ and the terminal side is in the second quadrant.

Reference Angle: _____

Amplitude: _____

Phase Shift: _____

Vertical Shift: _____

Equation: _____

Graphing Sine and Cosine Transformations

Write an equation in terms of the reference angle θ for the angle θ in the interval $[0, 2\pi)$ if the reference angle is $\frac{\pi}{6}$ and the terminal side is in the second quadrant.

Reference Angle: _____

Amplitude: _____

Phase Shift: _____

Vertical Shift: _____

Equation: _____

Write an equation in terms of the reference angle θ for the angle θ in the interval $[0, 2\pi)$ if the reference angle is $\frac{\pi}{6}$ and the terminal side is in the second quadrant.

Reference Angle: _____

Amplitude: _____

Phase Shift: _____

Vertical Shift: _____

Equation: _____

✦ Lesson ✦ 10-Page Packet ✦ Keys
✦ 2 Worksheets ✦ Reference Sheet

Graphing Sine And Cosine Unit Lesson 01

David Baud



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