

# WRITING TRIGONOMETRIC EQUATIONS

## Algebra 2 Guided Notes

### TRIGONOMETRIC FUNCTION

Identify which function is shown based on the graph.

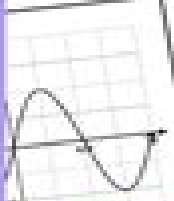
Amplitude: \_\_\_\_\_

Period: \_\_\_\_\_

Phase Shift: \_\_\_\_\_

Midline: \_\_\_\_\_

Equation: \_\_\_\_\_



1. Sine or Cosine?

Amplitude: \_\_\_\_\_

Period: \_\_\_\_\_

Equation: \_\_\_\_\_

### WRITING TRIGONOMETRIC EQUATIONS

|                                                                     |                                              |
|---------------------------------------------------------------------|----------------------------------------------|
| Steps for writing sine & cosine functions from graphs (With Shifts) | Step 1: Identify the <u>midline</u> .        |
|                                                                     | Step 2: Choose your starting point to _____. |
|                                                                     | Step 3: Identify the <u>amplitude</u> .      |
|                                                                     | Step 4: Identify the <u>phase shift</u> .    |
|                                                                     | Step 5: Write the equation.                  |

Directions: Write 2 corresponding equations for each graph.

1.

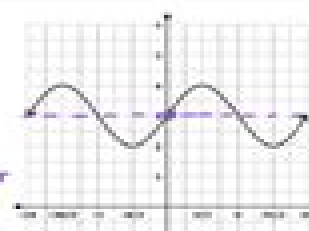
Amplitude: 1

Period:  $2\pi$

$B = \frac{2\pi}{2\pi} = 1$

Phase Shift: right  $\frac{\pi}{2}$

Midline:  $y = 3$



$y = \sin x + 3$

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

2.

Amplitude: \_\_\_\_\_

Period: \_\_\_\_\_

Phase Shift: \_\_\_\_\_

Midline: \_\_\_\_\_

Equation: \_\_\_\_\_

### WRITING TRIGONOMETRIC EQUATIONS

Steps for writing tangent functions from graphs

|                                   |
|-----------------------------------|
| Step 1: Identify the _____.       |
| Step 2: Find the calculate _____. |
| Step 3: Find the _____.           |
| Step 4: Write the equation.       |

Directions: Write the corresponding equation for each graph.

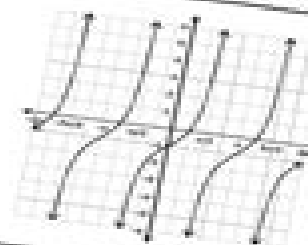
1.

Period: \_\_\_\_\_

Phase Shift: \_\_\_\_\_

Midline: \_\_\_\_\_

Equation: \_\_\_\_\_



2.

Period: \_\_\_\_\_

Phase Shift: \_\_\_\_\_

Midline: \_\_\_\_\_

Equation: \_\_\_\_\_



Answer key included

# Algebra 2 With Trigonometry Unit 11 Answer Key

**R Pring**



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