Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 2 Graphing Sinusoidal Functions Review**

1. 

A represents…. B represents…. BUT to find \_\_\_\_\_\_\_\_\_\_\_\_\_, use the equation:

C represents… D represents…

 sin starts at a \_\_\_\_\_\_\_\_\_ and cosine starts at a \_\_\_\_\_\_\_

2. Parent Functions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Equation** | **Graph** | **Period** | **Sinusoidal Axis** |
| Sine |  |  |  |  |
|  |  |  |  |  |
| Tangent |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Draw 2 cycles of each graph in radians.

3. $y= -3+7sin4\left(x-\frac{π}{4}\right)$ (Radians)

 A. Amplitude: \_\_\_\_\_\_\_\_\_\_\_

 B. Period: \_\_\_\_\_\_\_\_\_\_\_

 C. Sinusoidal Axis (midline): \_\_\_\_\_\_\_\_\_\_\_\_

 D. Phase Shift (horizontal shift): \_\_\_\_\_\_\_\_\_\_\_\_

 E. Maximum y-value: \_\_\_\_\_\_\_\_\_\_\_\_

4. $y= 5-4 cos\frac{π}{5}(x+3$) (Radians)

 A. Amplitude: \_\_\_\_\_\_\_\_\_\_\_

 B. Period: \_\_\_\_\_\_\_\_\_\_\_

 C. Sinusoidal Axis (midline): \_\_\_\_\_\_\_\_\_\_\_\_

 D. Phase Shift (horizontal shift): \_\_\_\_\_\_\_\_\_\_\_\_

E. Maximum y-value: \_\_\_\_\_\_\_\_\_\_\_\_

5.  (Degrees)

 A. Amplitude: \_\_\_\_\_\_\_\_\_\_\_

 B. Period: \_\_\_\_\_\_\_\_\_\_\_

 C. Sinusoidal Axis (midline): \_\_\_\_\_\_\_\_\_\_\_\_

 D. Phase Shift (horizontal shift): \_\_\_\_\_\_\_\_\_\_\_\_

E. Maximum y-value: \_\_\_\_\_\_\_\_\_\_\_\_

6.  (Degrees)

 A. Amplitude: \_\_\_\_\_\_\_\_\_\_\_

 B. Period: \_\_\_\_\_\_\_\_\_\_\_

 C. Sinusoidal Axis (midline): \_\_\_\_\_\_\_\_\_\_\_\_

 D. Phase Shift (horizontal shift): \_\_\_\_\_\_\_\_\_\_\_\_

 E. Maximum y-value: \_\_\_\_\_\_\_\_\_\_\_\_

Write the equation of the graph as either sine or cosine. Check the axis to see if the graph is in radians or degrees.

7. 8.

 



9. 10.

.

11. 12.