Algebra 3-4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_\_

Ch 8 Day 11 REVIEW Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Find the missing side in each triangle. SHOW ALL WORK.**

 

1. Locate each angle below on the Unit Circle, then write down the value of the trig function listed. DO NOT use a calculator.

|  |  |  |
| --- | --- | --- |
| **1)** sin 135o | **2)** cos 225o | **3)** tan 45o |
| **4)** sin  | **5)** cos  | **6)** tan  |
| **7)** sin 510o | **8)** cos 600o | **9)** tan -30o |
| **10)** sin  | **11)** cos  | **12)** tan  |
| **13)** sin -120o | **14)** cos 330o | **15)** tan -180o |
| **16)** sin  | **17)** cos  | **18)** tan  |

1. Find the angle(s) described below on the Unit Circle, then write down the angle measure(s) in radians. DO NOT use a calculator.

|  |  |  |
| --- | --- | --- |
| **1)**  | **2)**  | **3)**  |
| **4)**  | **5)**  | **6)**  |
| **7)**  | **8)**  | **9)** undefined |
| **10)**  | **11)**  | **12)**  |
| **13)**  | **14)**  | **15)**  |
| **16)**  | **17)**  | **18)**  |

|  |  |  |
| --- | --- | --- |
| **PARAMETER** | **y = a ● sinb(x-h) + k** | **y = a ● cosb(x-h) + k** |
| **PARENT GRAPH** | y = sin(x) | y = cos(x) |
| **AMPLITUDE****(“a”)** |  y = 2sin(x) | y = 2cos(x) |
| **VERTICAL POSITION****(“k”)** | y = sin(x) + 1 | y = cos(x) + 1 |
| **HORIZONTAL POSITION****(“h”)** | y = sin(x - π/2) | y = cos(x - π/2) |
| **PERIOD CHANGE****(“b”)** |  y = sin(2x) | y = cos(2x) |

8. Graph each equation.

**a)**  **b)** 

  

**c)**  **d)**

 

9. Write an equation for each of these graphs.

**a)** **b)**

  

**c)** **d)**

 

1. A unit circle has angle  in standard position. Point *P* is on the circle and the coordinates of *P* are shown.
	1. What is cos? Explain what it means in terms of the sun.

ß

*P*

*x*

*y*

* 1. What is sin? Explain what it means in terms of the sun.
	2. What is the measure of angle ? Give your answer in radians *and* degrees.

Solve for using simplification and your unit circle.

1. If angle is in the third quadrant and , what is sine of that angle?

