Name_____

Date_____

Advanced Algebra

Unit 10: Assignment #14 Graphing Trig Functions

Make a table and graph the following:

- Make sure your calculator is in degree Mode
- Use your calculator to find the value of the following
- You might have to extend the given table to find the period
- Make a Graph. Degrees will go on the x axis.

1) y= 2 + sinθ

θ	Value
0	
90	
180	
270	
360	

2) y = sin ($\theta - 180$)

θ	Value
0	
90	
180	
270	
360	

3) y= 3+2sin($\theta + 180$)

θ	Value
0	
90	
180	
270	
360	

4) y = $\frac{1}{2}\cos\theta$

θ	Value
0	
90	
180	
270	
360	

5) y = $3+4\cos(\theta - 90)$

θ	Value
0	
90	
180	
270	
360	

6) y = tan θ Hint: tan = $\frac{sin}{cos}$ This graph has asymptotes

θ	Value
0	
90	
180	
270	
360	

7) y = $\sin\theta + 1$

θ	Value
0	
90	
180	
270	
360	

8) y = $\cos\theta - 2$

θ	Value
0	
90	
180	
270	
360	

9) y = -3cosθ

θ	Value
0	
90	
180	
270	
360	

10) y= 2cosθ + 1

θ	Value
0	
90	
180	
270	
360	

11) y = cos(2θ)

θ	Value
0	
90	
180	
270	
360	

12) y = sin($\frac{\theta}{2}$) - 1

θ	Value
0	
90	
180	
270	
360	

13) y = -2sin(3θ)

θ	Value
0	
90	
180	
270	
360	

1) Graph each problem
2) What is the period for each function?

3) What is the amplitude for each of the graphs? How can you know the amplitude by looking at the given equation.
4) Why are some graphs translated up? How can you tell this translation by looking at he given equation?
5) Why are some graphs shifted over? How can you tell what this shift is by looking at each of the given equations.