



Using the graph paper on the back, graph the following functions.

1.  $y = 2 \sin \theta - 4$

2.  $y = -\cos(2\theta) + 2$

3.  $y = 3 \sec\left(\frac{\theta}{2} - \pi\right)$

4.  $y = \tan(\theta)$

5.  $y = 4 \csc\left(\frac{\theta}{3} + \frac{\pi}{3}\right)$

6.  $y = -3 \sin\left(\theta - \frac{\pi}{2}\right) + 5$

7.  $y = \cot(\theta)$

8.  $y = 5 \sin(\theta + \pi) - 1$

9.  $y = -\sec\left(\frac{\theta}{4}\right) + 2$

10.  $y = 4 \csc(3\theta) - 1$

11.  $y = -3 \sin\left(\theta + \frac{\pi}{4}\right)$

12.  $y = \cos\left(\frac{\theta}{2} + \pi\right) + 3$

- Be able to find the following information.

Amplitude , Period , Phase Shift , Vertical Shift

- Graph the sin, cos, csc, sec, tan, cot

- Know the formula for finding the period and phase shift

Label the formulas here:

- How do you find the five x-axis points?

- Remember to make your table to find the five points.

---

Make a list of your formulas, parent functions, and notes to help you study for the test.