Honors Algebra 2

Round Table Review 13.4-13.6 – Graphing Sine, Cosine and Tangent

USE YOUR OWN PAPER to do the following problems. Then pass this paper to someone else in your group.

Graph three cycles of each function. Show a table for each.

1. $y = 4 \cos 2\theta$
2. $y = -2 \sin 3\theta$
3. $y = 3 \tan \frac{1}{2} \pi \theta$

Honors Algebra 2

Round Table Review 13.1 – Cycles, Periods, and Amplitude

USE YOUR OWN PAPER to do the following problems. Then pass this paper to someone else in your group.

1. Write an equation of the cosine function with **amplitude 2** and period $\frac{4\pi}{3}$. $y = -2\cos\frac{4\pi}{3}\theta$

2. Write an equation for the graph of a sine curve with **amplitude 4** and **period** of $\frac{\pi}{3}$.

   Assume $a > 0$. $y = 4 \sin \pi/3$

3. Find the period and amplitude of the cosine function $y = 3 \cos 8\theta$.

   $a = 3$ $\quad p = \frac{2\pi}{b} = \frac{2\pi}{8} = \pi/4$

4. A particular sound wave can be graphed using the function $y = 3 \sin 7\theta$.
   Find the amplitude and period of the function.

   $a = 3$ $\quad p = \frac{2\pi}{7}$