HONORS - Graphs of Periodic Functions Review

DIRECTIONS: Determine if the following graphs represent periodic functions. If not, explain why. It the graph is periodic find the period.



DIRECTIONS: (a) Highlight one cycle of each of the following periodic graphs. (b) Find the period. (c) Find the amplitude.



DIRECTIONS: Graph one cycle of each of the following trig functions. YOU MUST INCLUDE A TABLE.

7)
$$y = 2sin\theta$$
 8) $y = cos(2\theta)$

9) $y = -5\sin(\pi\theta)$

11)
$$y = 3sin\frac{\theta}{2}$$
 12) $y = -4cos\frac{2\pi\theta}{3}$

DIRECTIONS: Write an equation that matches the given description.

13) A positive cosine function with amplitude of 3 and period of 4π .

14) A negative sine function with amplitude of 4 and period of 3.

15) A positive sine function with amplitude of 10 and period of π .

DIRECTIONS: Write an equation that satisfies the given periodic graph.



Graph two cycles of the following tangent functions. YOU MUST INCLUDE A TABLE.

19)
$$y = tan2\theta$$
 20) $y = -2tan\frac{\theta}{4}$

Graph the following trig functions. YOU MUST INCLUDE A TABLE.

21)
$$y = -2\sin 3\theta + 4$$
 22) $y = 3\cos \frac{4\theta}{7} - 6$