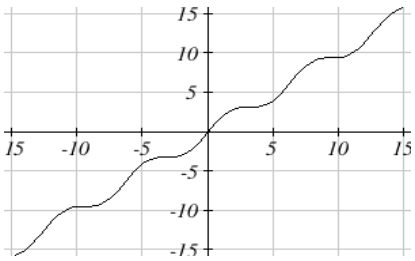
Name: _____ Hour: _2_ Date: _____

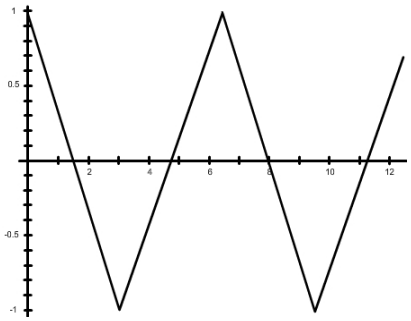
Graphs of Periodic Functions Review

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

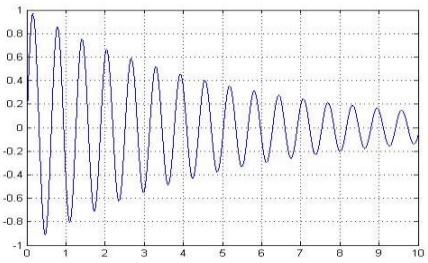
1)



2)

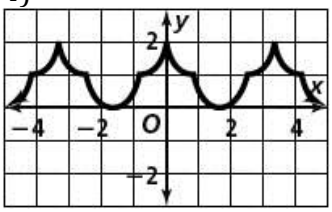


3)



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

4)



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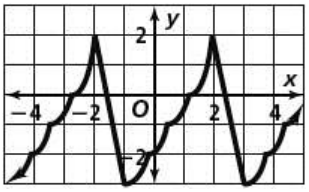
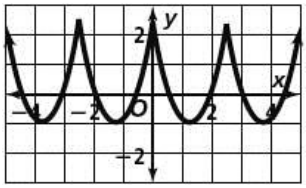


6)



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

10) $y = -6cos(4\theta)$

11) $y = 3sin\frac{\theta}{2}$

12) $y = -4cos\frac{2\pi\vartheta}{3}$

DIRECTIONS: Write an equation that matches the given description.

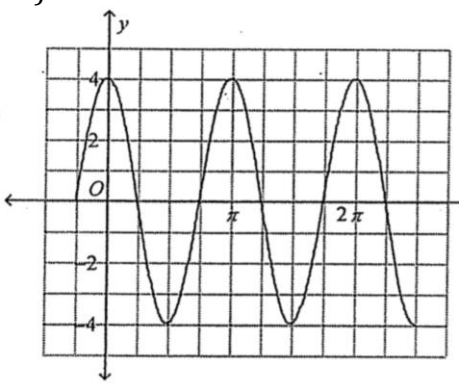
13) A positive cosine function with amplitude of 3 and period of 4π.

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

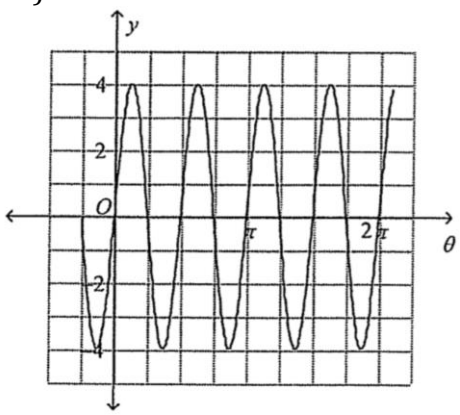
15) A positive sine function with amplitude of 10 and period of π.

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

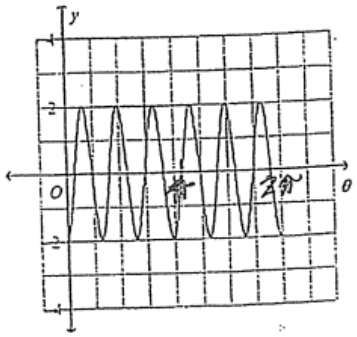
16)



17)



18)



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

19) $y = tan2\theta$

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