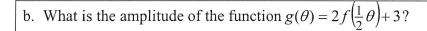
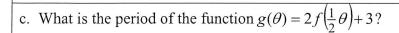
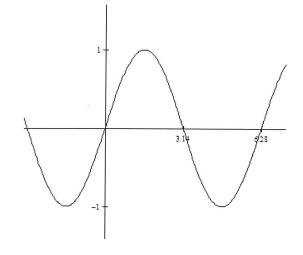
Day #83 Homework

1. Answer the following questions about the graph of $f(\theta)$ pictured to the right.

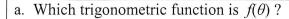


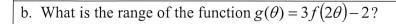


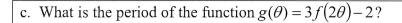


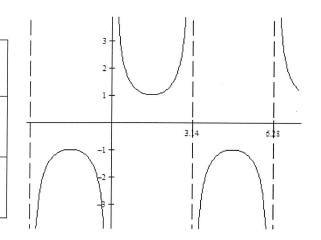


2. Answer the following questions about the graph of $f(\theta)$ pictured to the right.

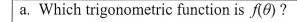






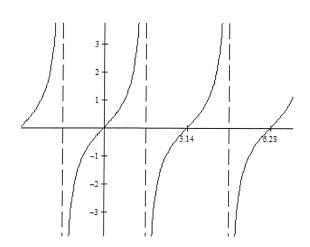


3. Answer the following questions about the graph of $f(\theta)$ pictured to the right.



b. What is the period of the function
$$g(\theta) = 3f(\frac{1}{3}\theta) - 2$$
?

c. Write a function, $h(\theta)$, that would transform $f(\theta)$ into its reciprocal trig function.



4.	$f(\theta)$	$=2\cos(\theta)$	$-\pi$) -4
1,000) (-)	(-	,

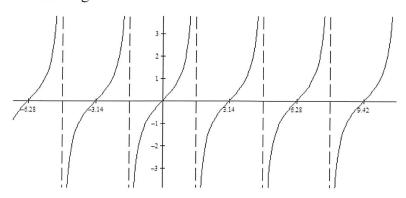
5. $g(\theta) = \sec(\theta - \pi) + 4$

6.
$$h(\theta) = 2\tan(\theta - \pi) - 4$$

7. $h(\theta) = 2\csc(\theta - \pi) - 3$

Pictured below is the graph of a trigonometric function, $f(\theta)$. Use the graph to determine if the following statements are true or false. Give explanation for your reasoning.

8. The graph of the function is of $f(\theta) = \cot \theta$.



9. The period of the function $g(\theta) = 2f(2\theta)$ is 2π .

10. The domain of the function $h(\theta) = f(\theta + \pi/2)$ is $(-\infty, \infty)$ except for $x = k\pi$, where k is any integer.

11. As $\theta \to -\frac{11\pi}{2}$ from the right, the graph of $f(\theta) \to -\infty$.