

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Graphing Trig Functions Worksheet

#1. What is the period for each given function:

a.  $y = \cot(x)$  \_\_\_\_\_

b.  $y = \csc\left(\frac{4x}{3}\right)$  \_\_\_\_\_

c.  $y = \cos(4\pi x)$  \_\_\_\_\_

#2. Describe the relationship between the graphs of  $f(x)$  and  $g(x)$ .

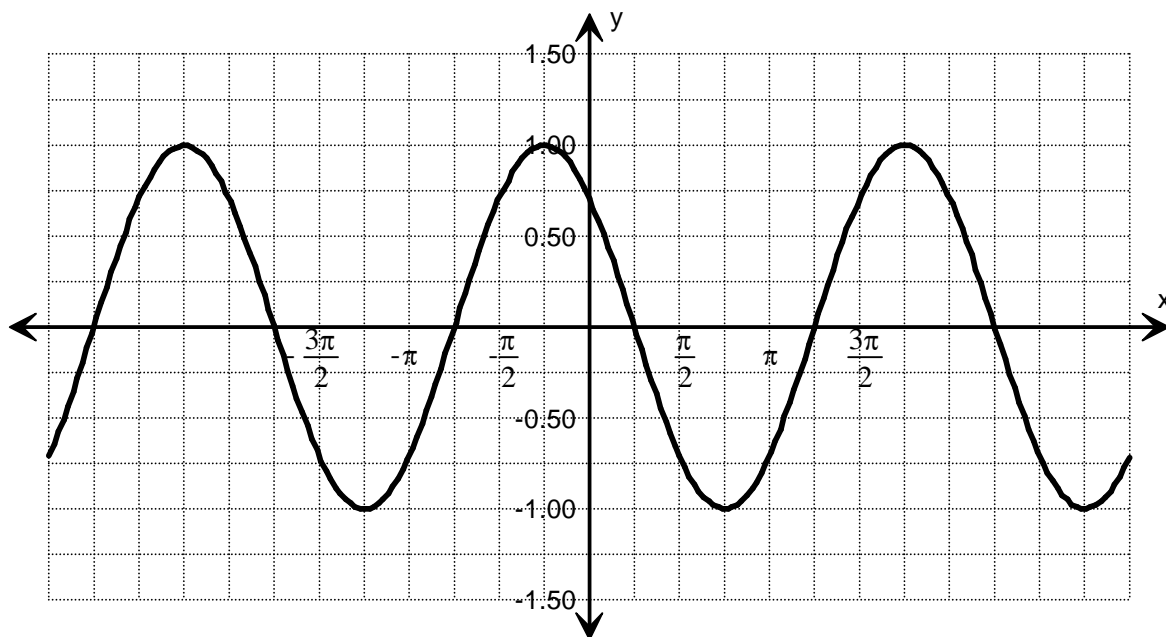
a.  $f(x) = 3\sec(x)$   
 $g(x) = 3\sec\left(x + \frac{3\pi}{4}\right)$

b.  $f(x) = \sin(4x)$   
 $g(x) = -\sin(4x)$

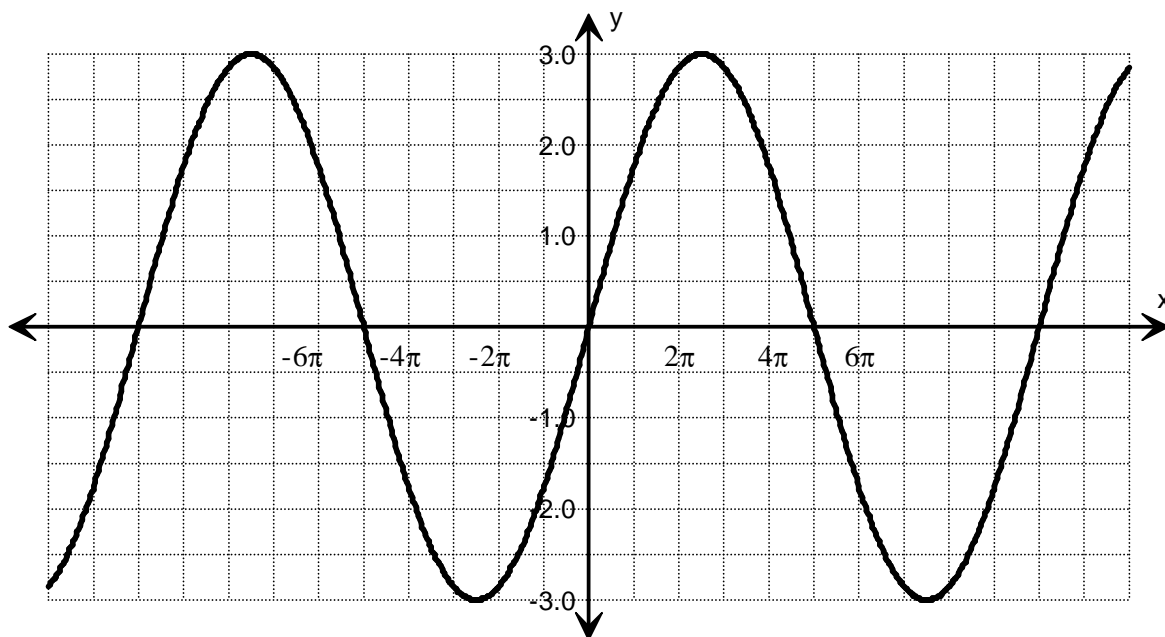
c.  $f(x) = \tan(\pi x)$   
 $g(x) = 7 + \tan(\pi x)$

#3. Give an equation for each of the following graphs.

a.

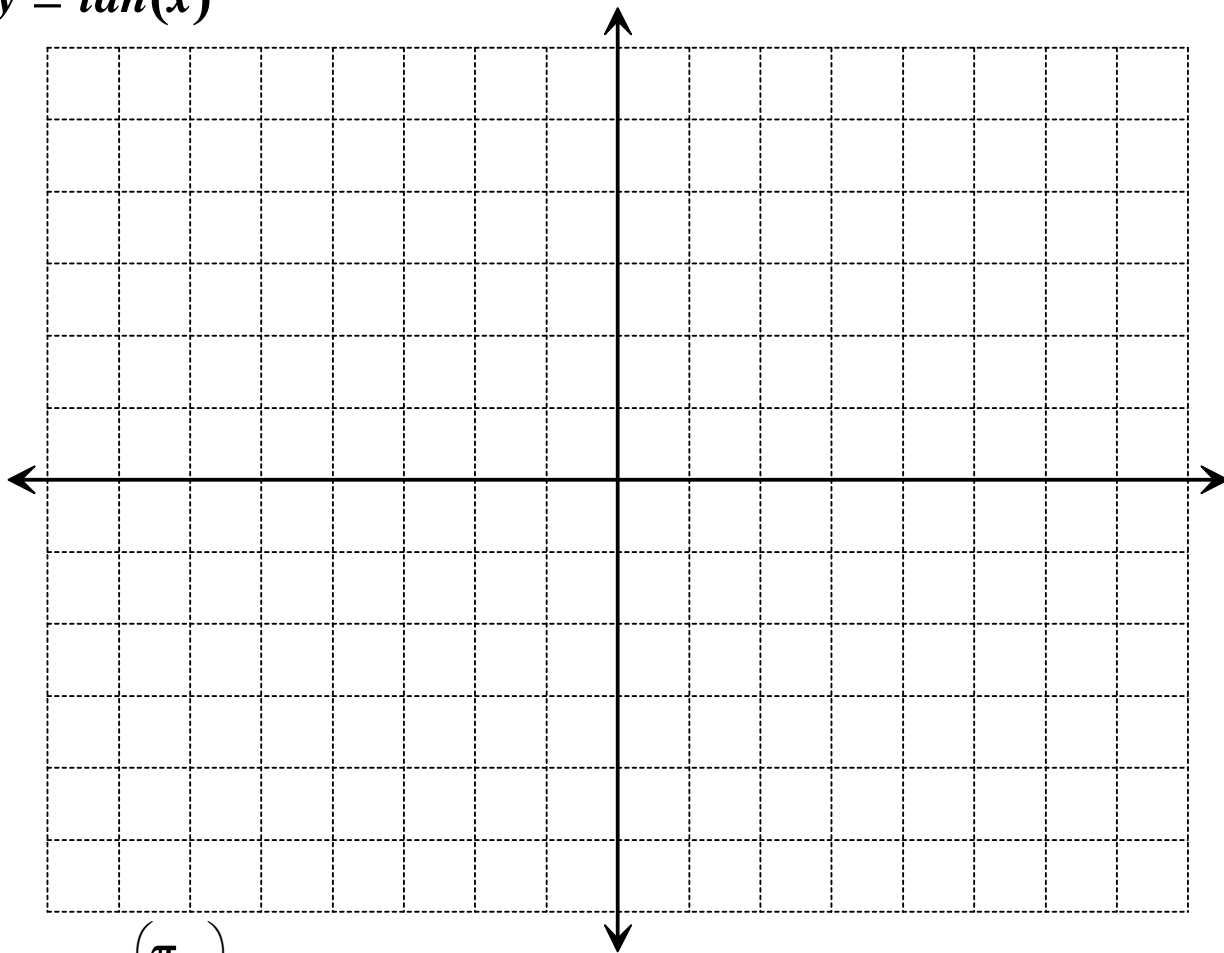


b.



#4. Graph the following. Label scale used.

a.  $y = \tan(x)$



b.  $y = \sin\left(\frac{\pi}{3}x\right) - 1$

