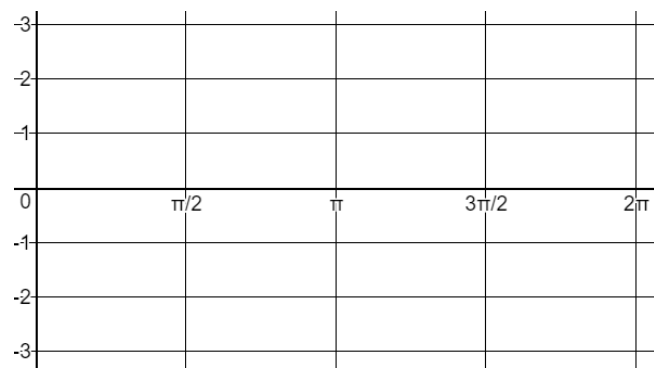
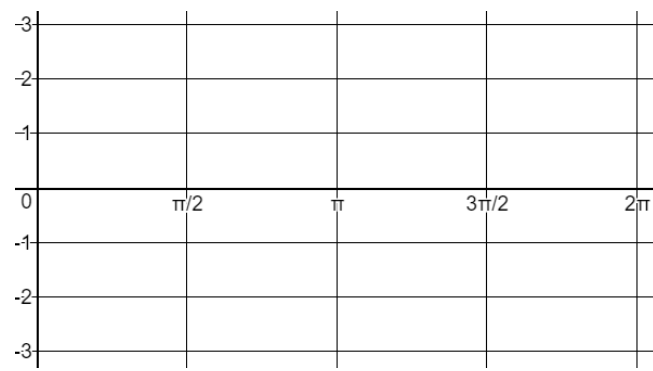
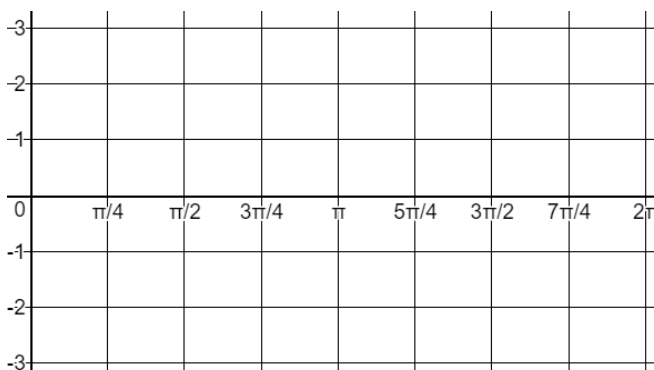
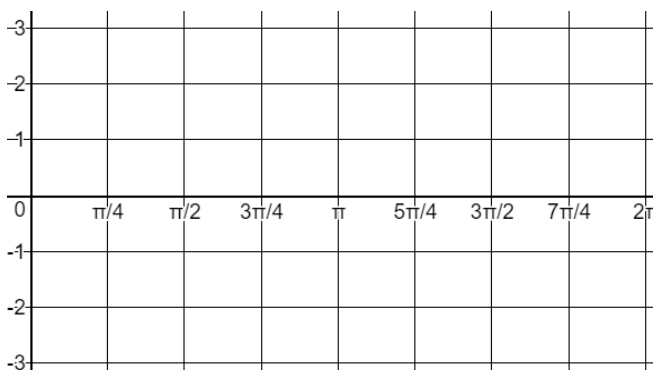


Name: _____ Date: _____ Per: _____

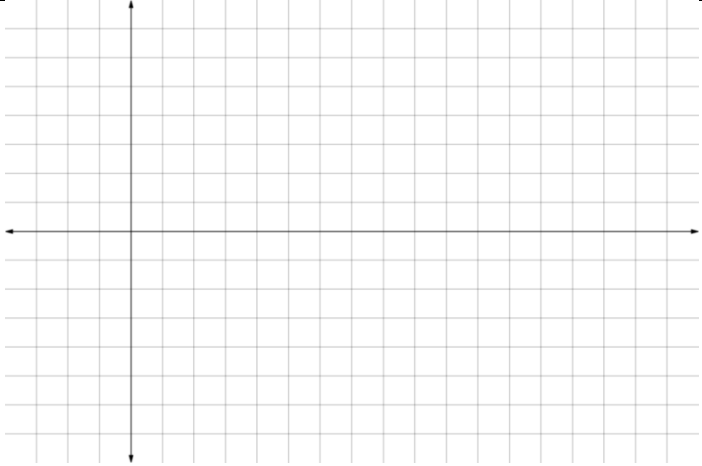
UNIT Review 4.4 – Graphing Recip. Trig. Functions and Tangent

I. Basics:

<p>1.) Graph one cycle of $y = \csc \theta$</p> 	<p>2.) Graph one cycle of $y = \sec \theta$</p> 
<p>3.) Graph two cycles of $y = \tan \theta$</p> 	<p>4.) Graph two cycles of $y = \cot \theta$</p> 

II. Graphing:

Find all the unknowns. Then set the x and y axis up for each graph and label accurately with simplified units. Then **plot at least one cycle** if it is a sec or csc function, and **two cycles** if it is a tan or cot function. Also, draw the midline on your graphs. *Write the x -axis labels below the coordinate grids and y -axis labels to the left.*

<p>5.) $y = -4 \csc 6\theta$</p> <p>a-value = _____</p> <p>Reflection? Yes / No (<i>circle one</i>)</p> <p>Period = _____</p> <p>Midline: _____</p>	
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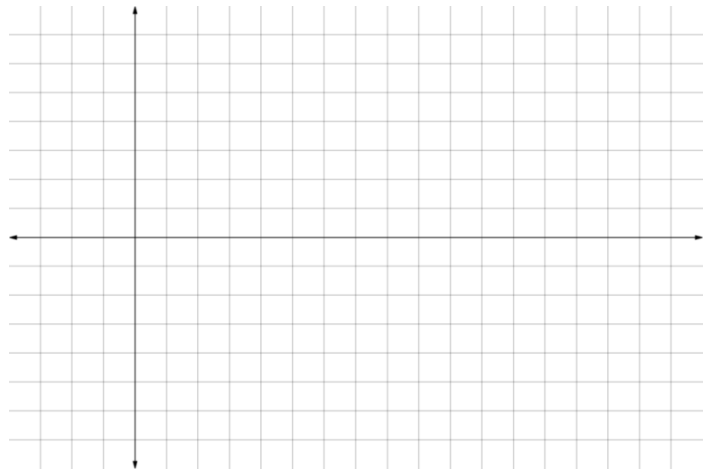
6.) $y = 2 \sec \frac{\theta}{4} - 3$

a-value = _____

Reflection? **Yes / No** (circle one)

Period = _____

Midline: _____



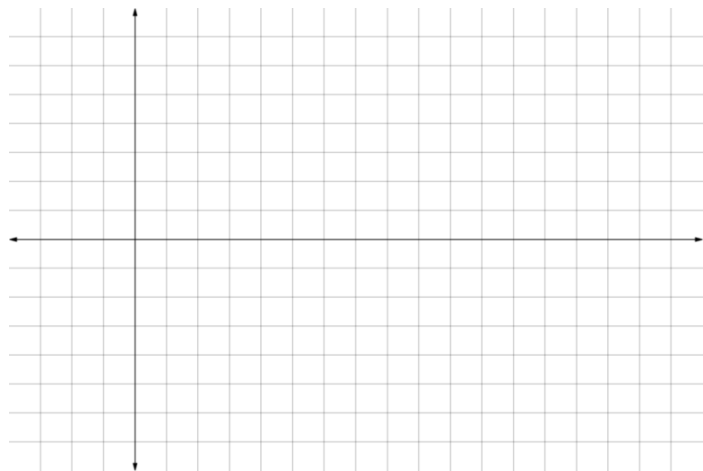
7.) $y = -\tan \frac{4\theta}{3} + 2$

a-value = _____

Reflection? **Yes / No** (circle one)

Period = _____

Midline: _____



8.) $y = 3 \cot \frac{1}{2}(\theta + \frac{5\pi}{4}) + 1$

- Plot graph using the entire grid!!!

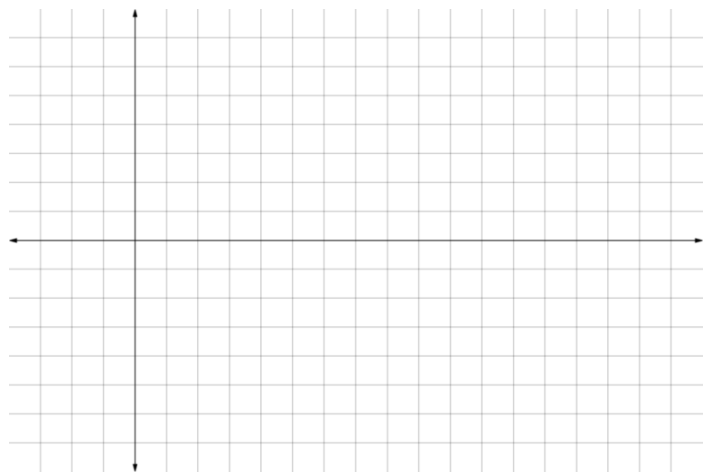
a-value = _____

Reflection? **Yes / No** (circle one)

Period = _____

Midline: _____

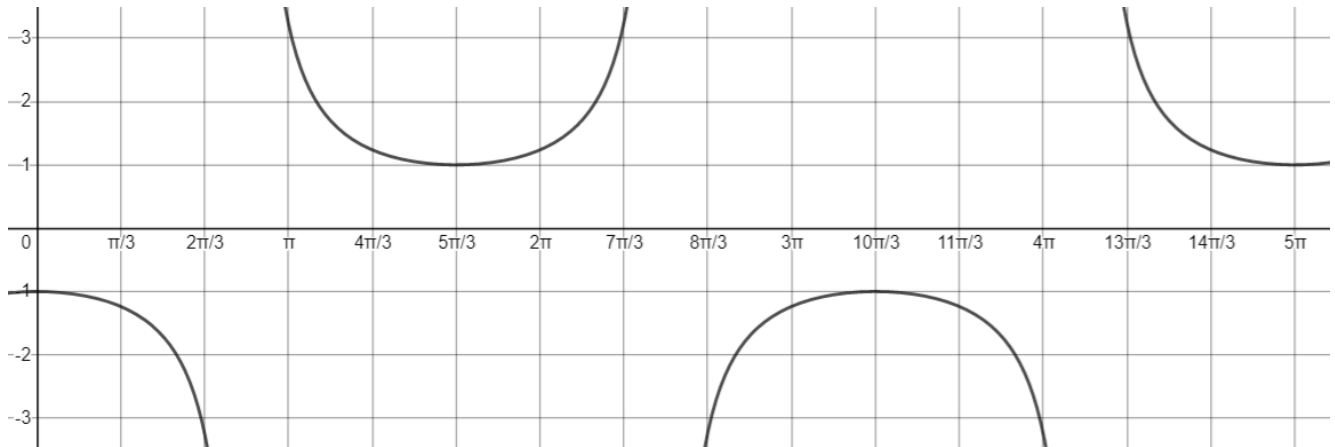
Phase Shift is Left / Right _____ units
(circle one)



III. Given a Graph, Write the Function:

Given these graphs, fill in all the blanks and then write the correct function, starting with "y = " .

9.) Given the graph find all unknowns. Then write the function of the graph that is given.



Csc , Sec , Tan or Cot ? (circle one)

a – value: _____

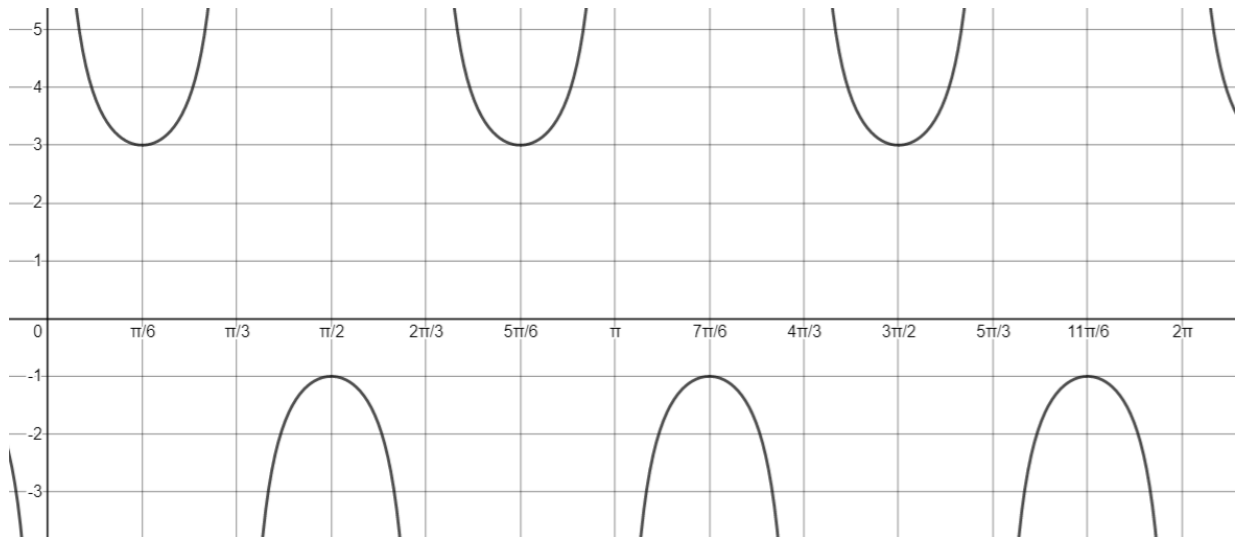
b – value: _____

Reflection? Yes / No (circle one)

Midline: _____

Function: _____

10.) Given the graph find all unknowns. Then write the function of the graph that is given.



Csc , Sec , Tan or Cot ? (circle one)

a – value: _____

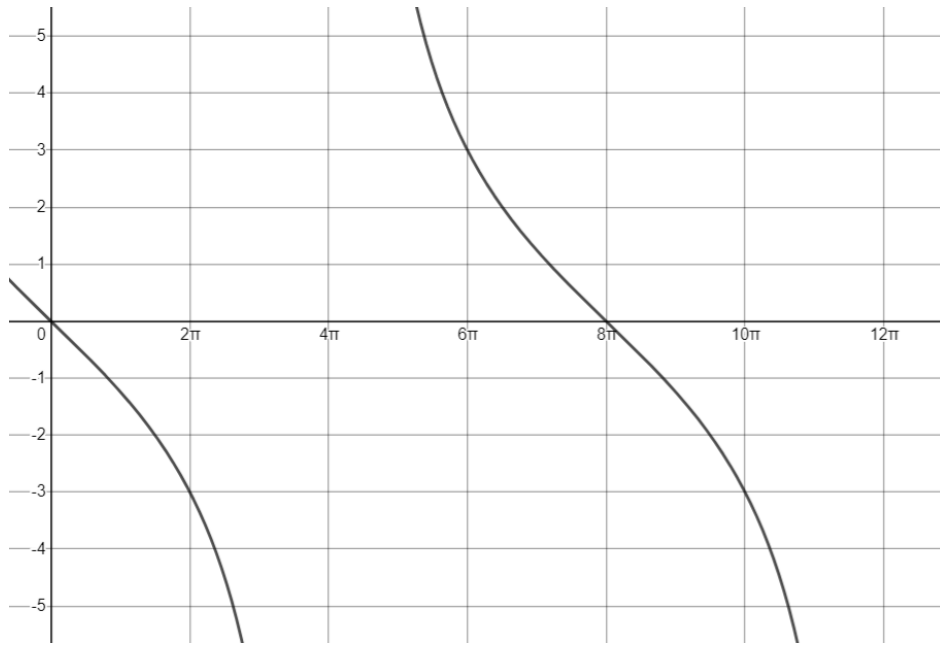
b – value: _____

Reflection? Yes / No (circle one)

Midline: _____

Function: _____

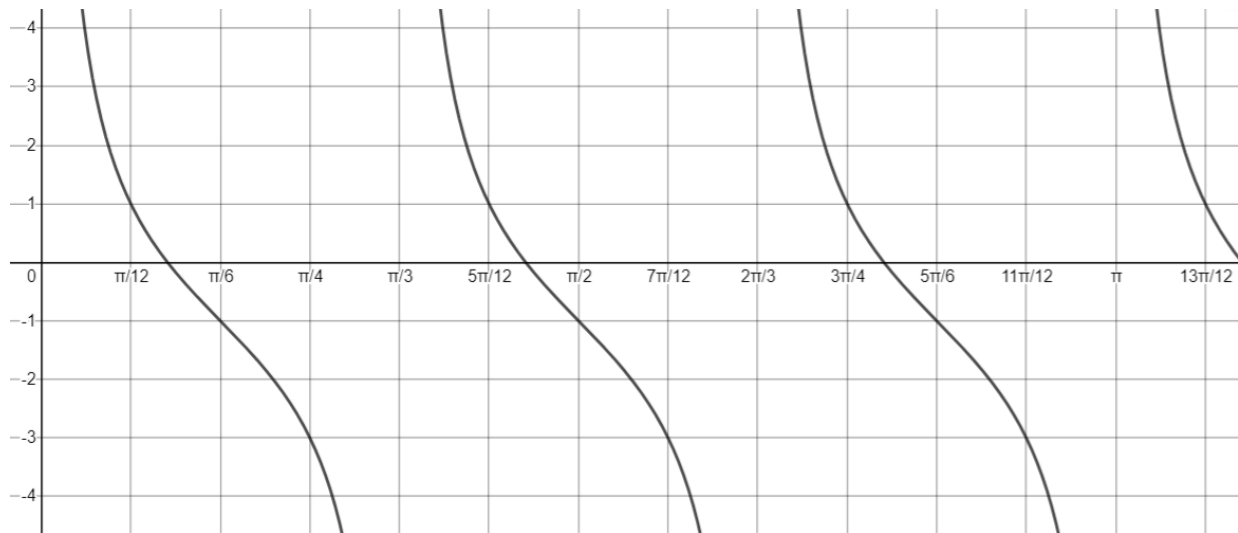
11.) Given the graph find all unknowns. Then write the function of the graph that is given.



Csc, Sec, Tan or Cot ? (circle one) a – value: _____ b – value: _____

Reflection? Yes / No (circle one) Midline: _____ Function: _____

12.) Given the graph find all unknowns. Then write the function of the graph that is given.



Csc, Sec, Tan or Cot ? (circle one) a – value: _____ b – value: _____

Reflection? Yes / No (circle one) Midline: _____ Function: _____