Pre-Calculus Worksheet

Name: _____

Cosecant and secant

Per: ____

I. Fill in the chart for each function. **DO NOT GRAPH. And FACTOR first when needed!**

1. $y = -5\csc(2x) + 2$

Amplitude:
Flip?
Vertical Shift:
Period:
Phase Shift:

2. $y = \frac{1}{2}\sec\left(3x - \frac{\pi}{2}\right) - 5$

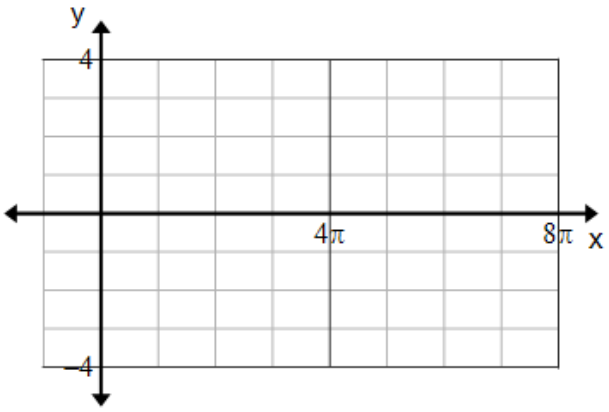
Amplitude:
Flip?
Vertical Shift:
Period:
Phase Shift:

3. $y = -\frac{1}{5}\csc(4x + \pi)$

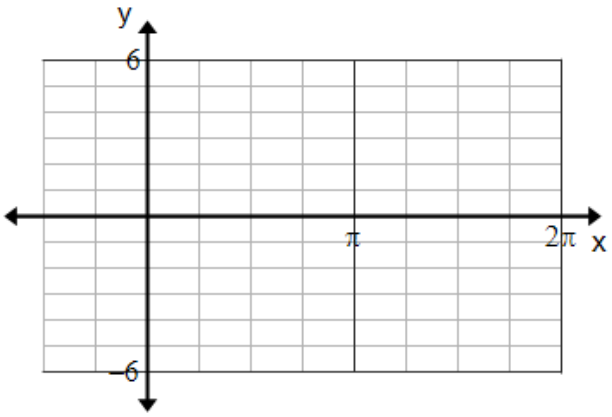
Amplitude:
Flip?
Vertical Shift:
Period:
Phase Shift:

II. Graph each function, over one period, showing the vertical asymptotes.

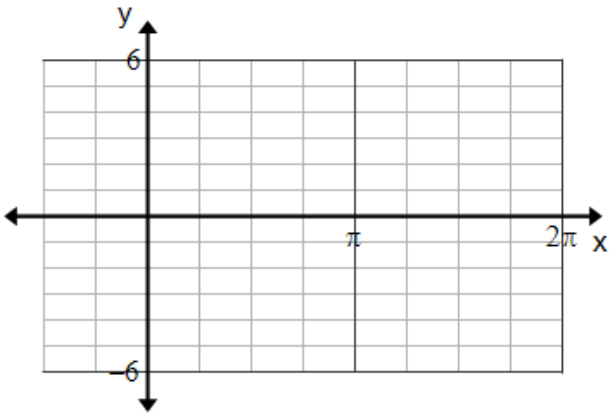
4. $y = \csc\left(\frac{1}{4}x\right)$



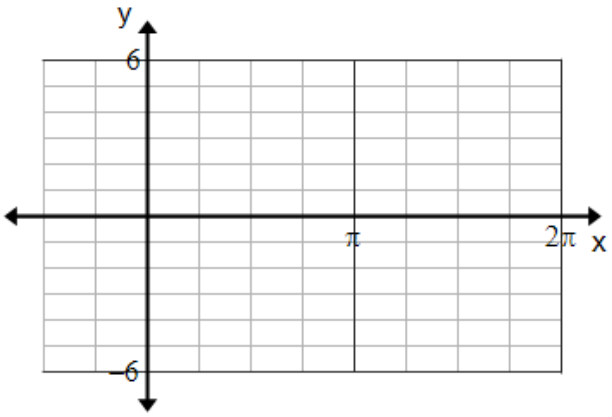
5. $y = \sec(2x) + 3$



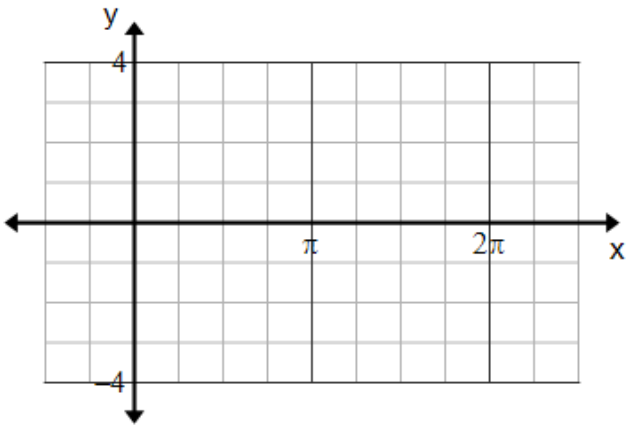
6. $y = -\sec x - 2$



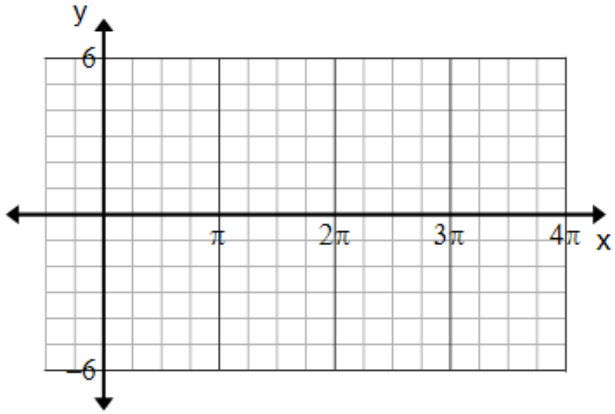
7. $y = 3\csc x + 1$



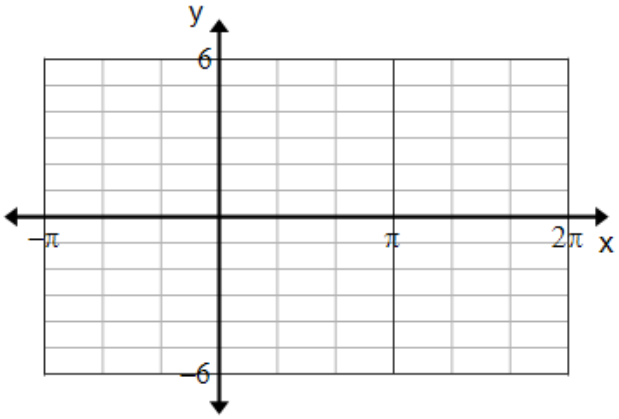
8. $y = \frac{1}{2}\csc\left(x - \frac{\pi}{4}\right)$



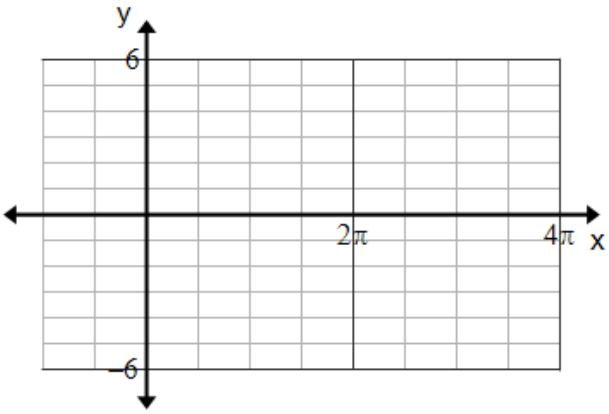
9. $y = 4\sec(x - \pi)$



10. $y = 2\sec\left(x + \frac{\pi}{3}\right) - 2$

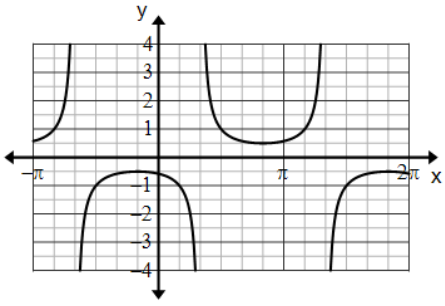


11. $y = 2\csc\left(\frac{1}{2}x\right)$

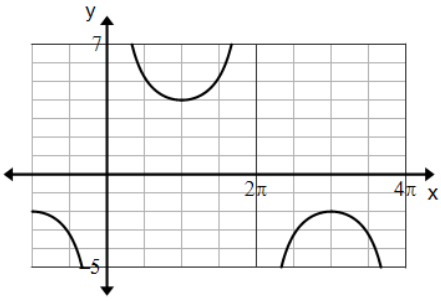


III. Write the equation for each function.

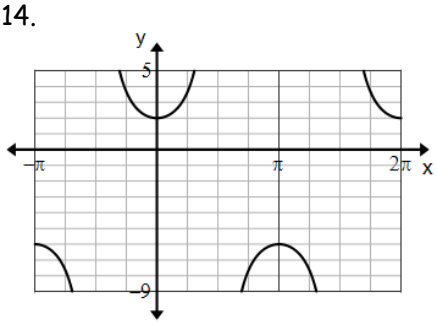
12.



13.



14.



15.