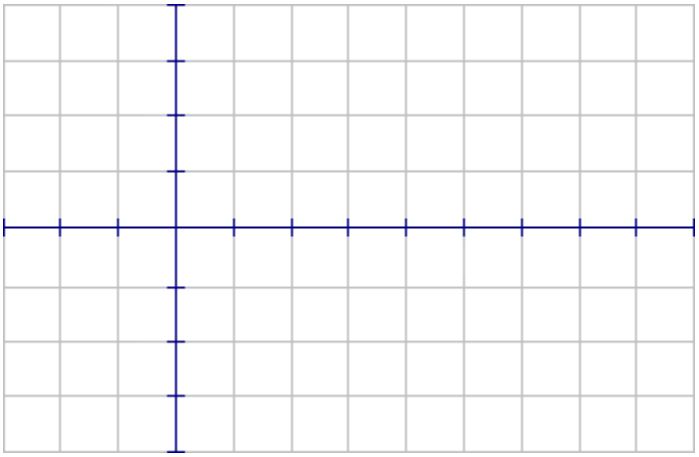
Pre-Calculus/Trig 3 Name: _____

UNIT 6: Graphing Trigonometric Functions – SECTION 3 WORKSHEET Date: _____

GRAPHING COSECANT & SECANT

Directions: Graph a minimum of two periods of each of the given trigonometric functions.

1.) $y = 2\csc(2\theta + \pi) + 2$



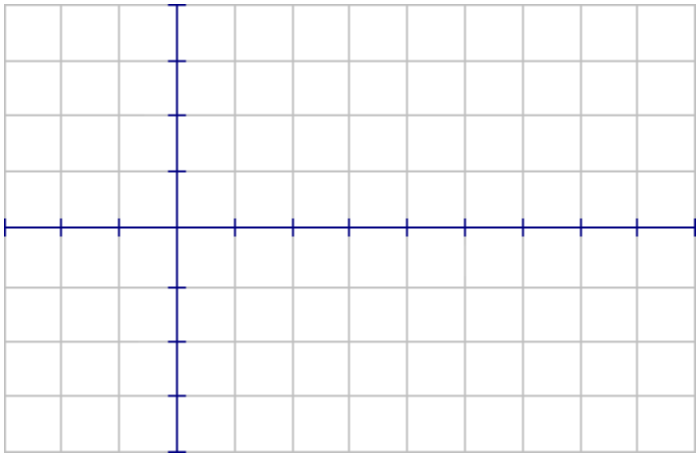
RADIANS

AMP: _____ Phase Shift: _____

Period: _____ Vert. Shift: _____

Count: _____

2.) $y = \frac{1}{2}\sec(6\theta + 360°)$



DEGREES

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Period: _____ Vert. Shift: _____

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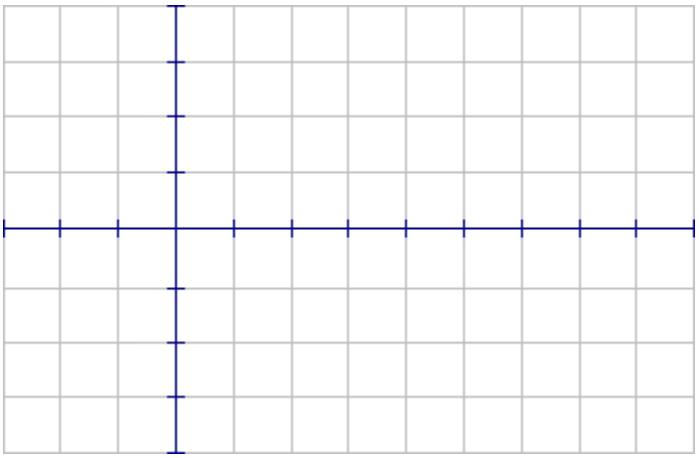
3.) $y = \frac{1}{2}\sec\left(2\theta + \frac{\pi}{2}\right)$



RADIANS

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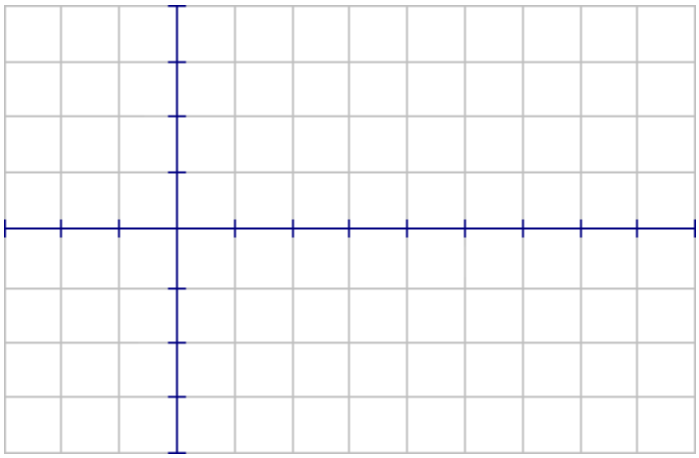
4.) $y = \csc(2\theta + \pi) - 1$



RADIANS

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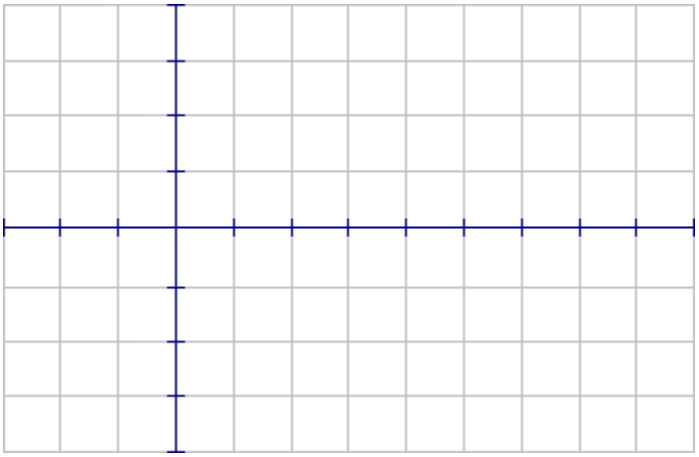
5.) $y = 2\csc\left(4\theta + \frac{\pi}{2}\right)$



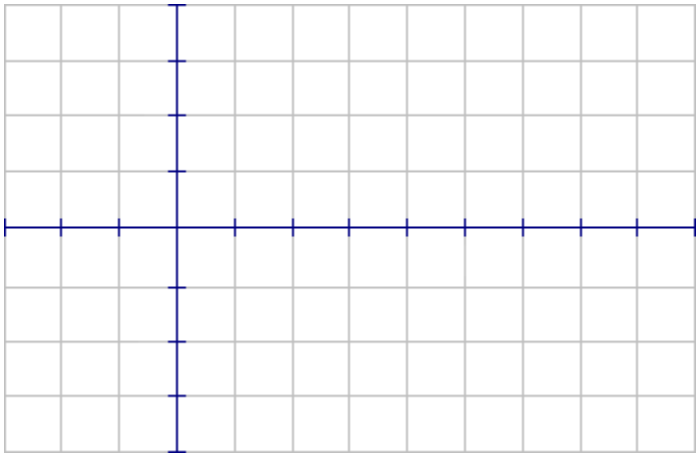
RADIANS

AMP: _____ Phase Shift: _____

Period: _____ Vert. Shift: _____

Count: _____

6.) $y = \sec(6\theta + 180°) + 1$



DEGREES

AMP: _____ Phase Shift: _____

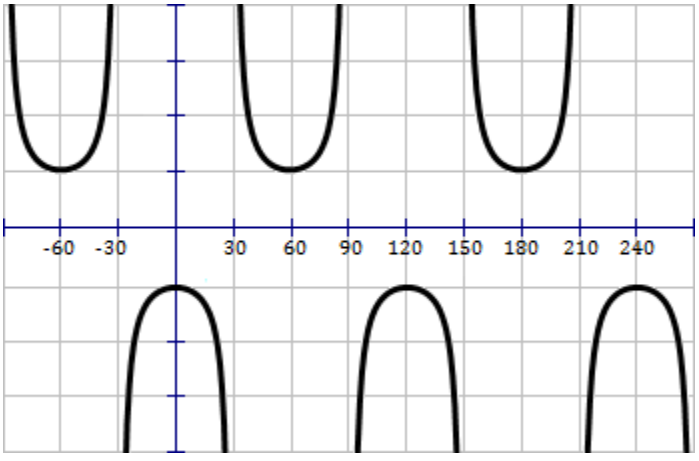
Period: _____ Vert. Shift: _____

Count: _____

Directions: Given each trigonometric graph, write ONE equation for a cosecant function and ONE equation for the secant function. Note there are multiple equations for each graph.

7.) COSECANT $y =$ _____

SECANT $y =$ _____



8.) COSECANT $y =$ _____

SECANT $y =$ _____