

Name:

Date:

Topic:

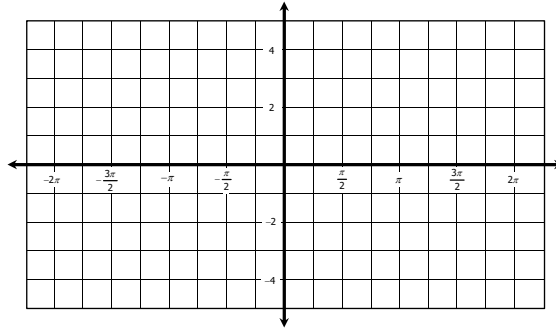
Class:

Main Ideas/Questions

Notes/Examples

GRAPHING RECIPROCAL FUNCTIONS

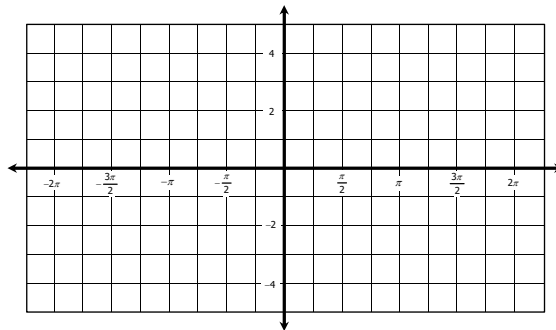
COSECANT
($y = \csc \theta$)



Amplitude:

Period:

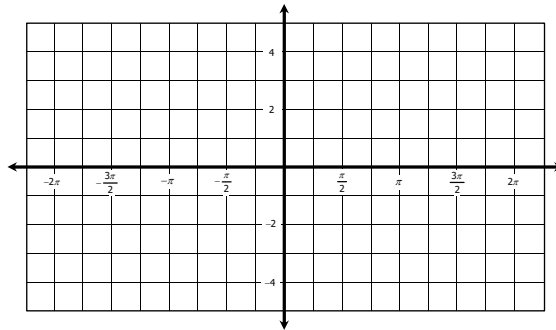
SECANT
($y = \sec \theta$)



Amplitude:

Period:

COTANGENT
($y = \cot \theta$)



Amplitude:

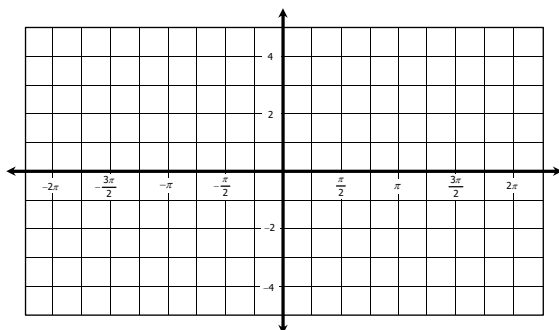
Period:

If given $y = a \cdot \csc b\theta$, $y = a \cdot \sec b\theta$, or $y = a \cdot \cot b\theta$, apply the changes to the amplitude, period, and/or asymptotes the same way you did for the other trigonometric functions.

Directions: Identify the period, then graph each function.

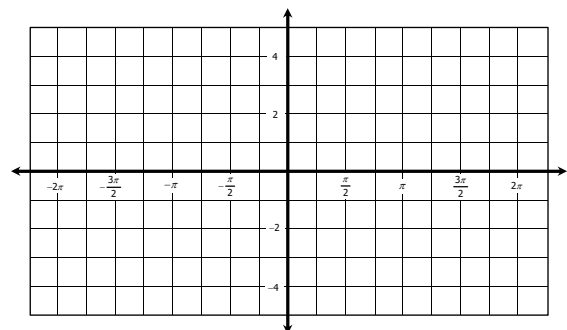
1. $y = 3 \cdot \csc \theta$

Period: _____



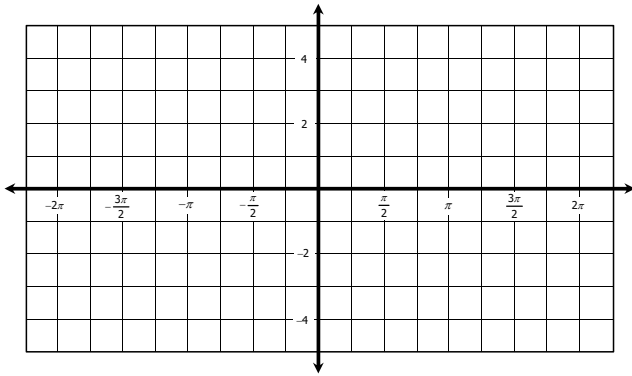
2. $y = \sec \frac{1}{2} \theta$

Period: _____



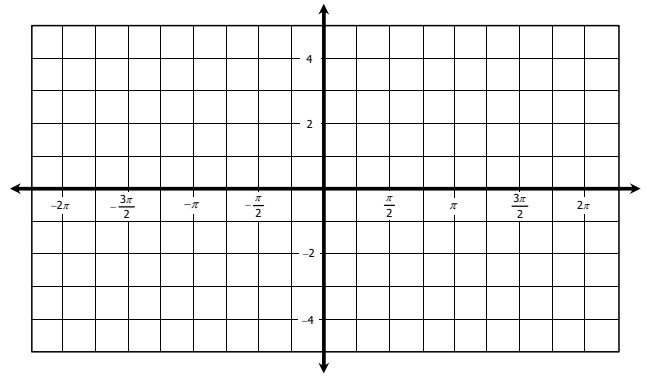
3. $y = \cot 2\theta$

Period: _____



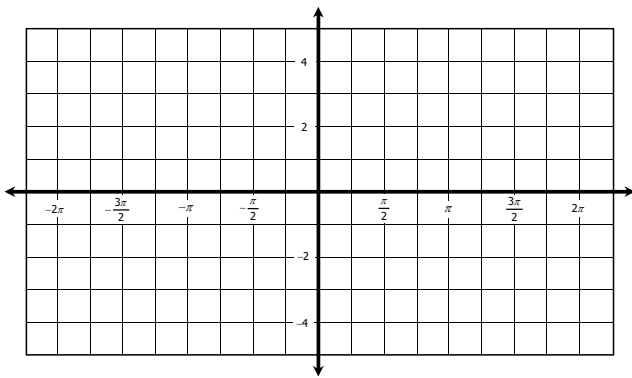
4. $y = 2 \cdot \sec \theta$

Period: _____



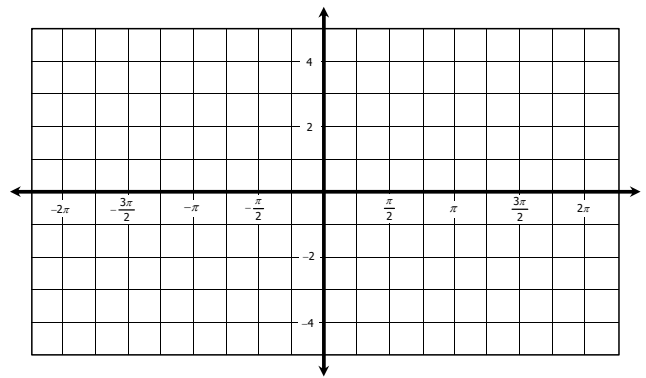
5. $y = \frac{1}{2} \cdot \cot \theta$

Period: _____



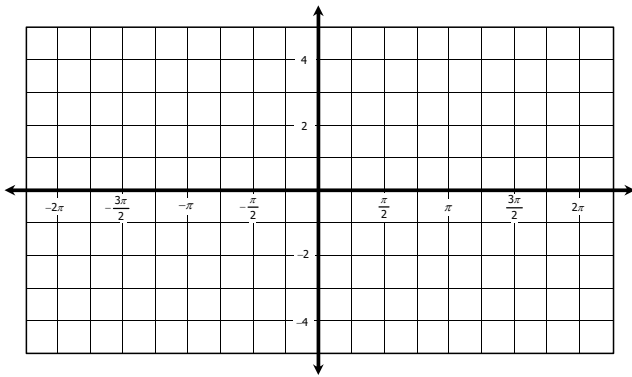
6. $y = \csc \frac{4}{3} \theta$

Period: _____



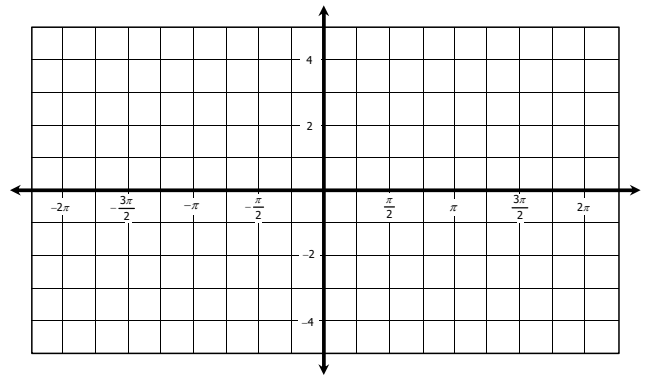
7. $y = 2 \cdot \sec 2\theta$

Period: _____



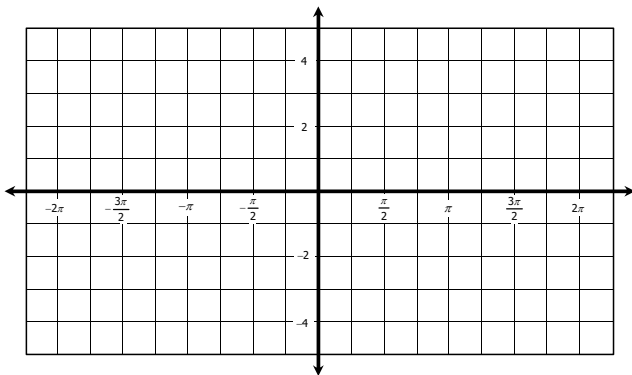
8. $y = 3 \cdot \csc \frac{1}{2} \theta$

Period: _____



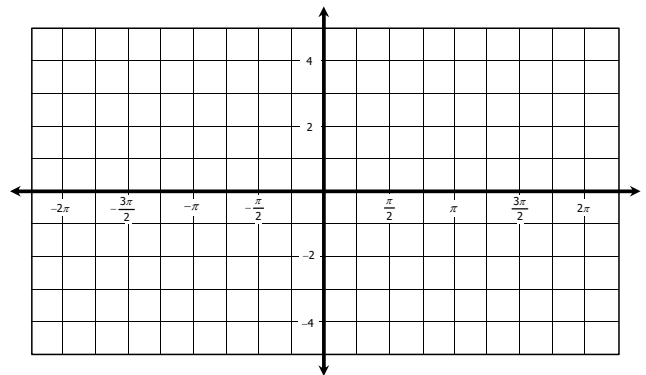
9. $y = 4 \cdot \cot \frac{1}{2} \theta$

Period: _____

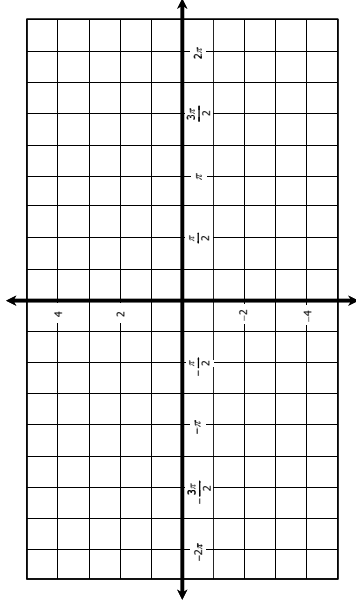


10. $y = \frac{5}{2} \cdot \csc 3\theta$

Period: _____



COSECANT

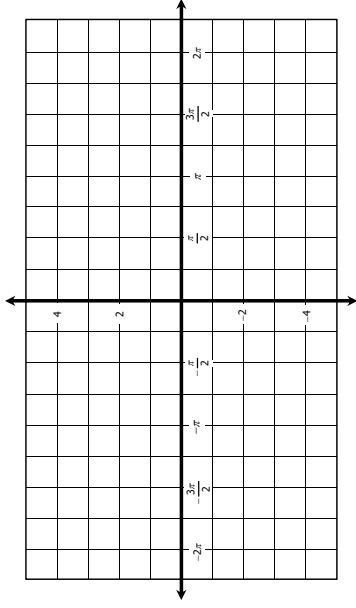


Amplitude = _____

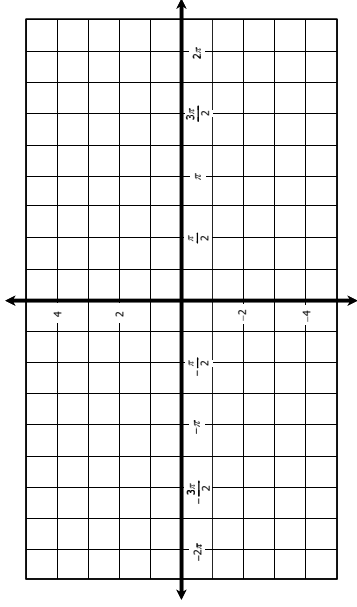
Period = _____

$$y = \frac{5}{2} \cdot \csc \frac{2}{3} \theta$$

Amp: _____ Period: _____



SECANT

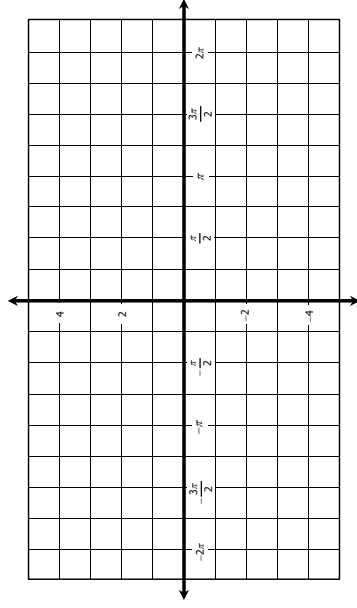


Amplitude = _____

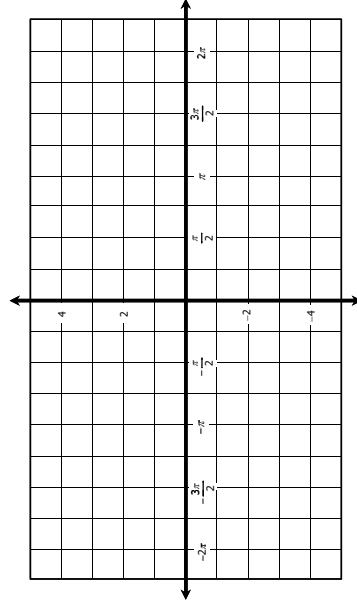
Period = _____

$$y = 2 \cdot \sec \frac{4}{3} \theta$$

Amp: _____ Period: _____



COTANGENT



Amplitude = _____

Period = _____

$$y = \frac{1}{4} \cdot \cot 2 \theta$$

Amp: _____ Period: _____

