Name_____

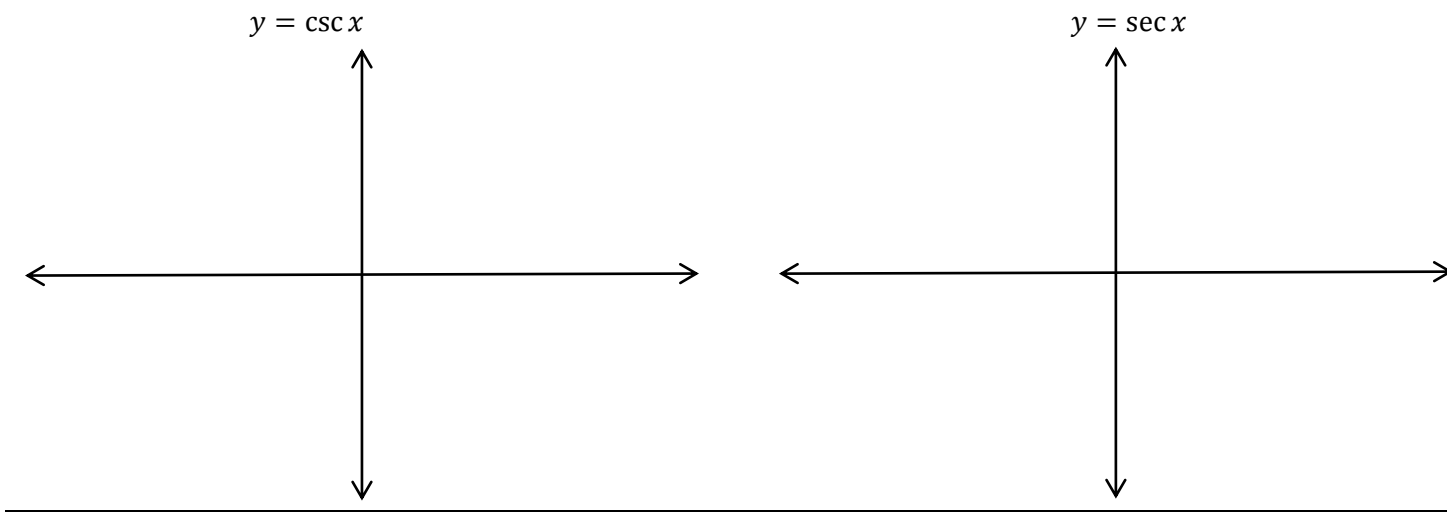## Secant and Cosecant Graphs

Write csc (x) and sec (x) in terms of sin (x) and cos (x)

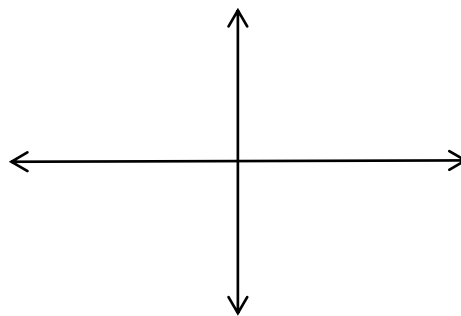What is the y-intercept of $y = \sec x$? $y = \csc x$?

Display cosecant and secant for numbers $x, -2\pi < x < 2\pi$. Mark asymptotes and find domain, range, and period.
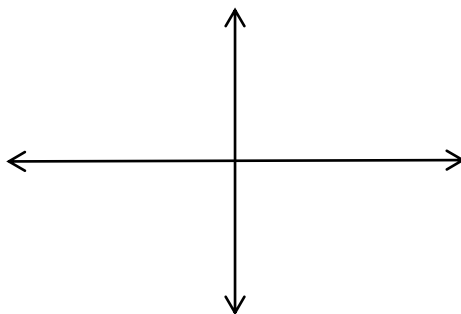
$$y = \csc x \qquad\qquad\qquad\qquad y = \sec x$$

Determine the period and phase shift without a graphing calculator

- $y = 3 \csc\left(\frac{1}{2}x\right)$

- $y = -2\sec(3x) + 1$

- $y = 2\csc(4x + \pi)$