

Assignment 4 – Graphing Secant and Cosecant Functions

Name _____

1. For the following functions, find a) the vertical shift, b) the phase shift, c) the period, d) the vertical stretch.

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

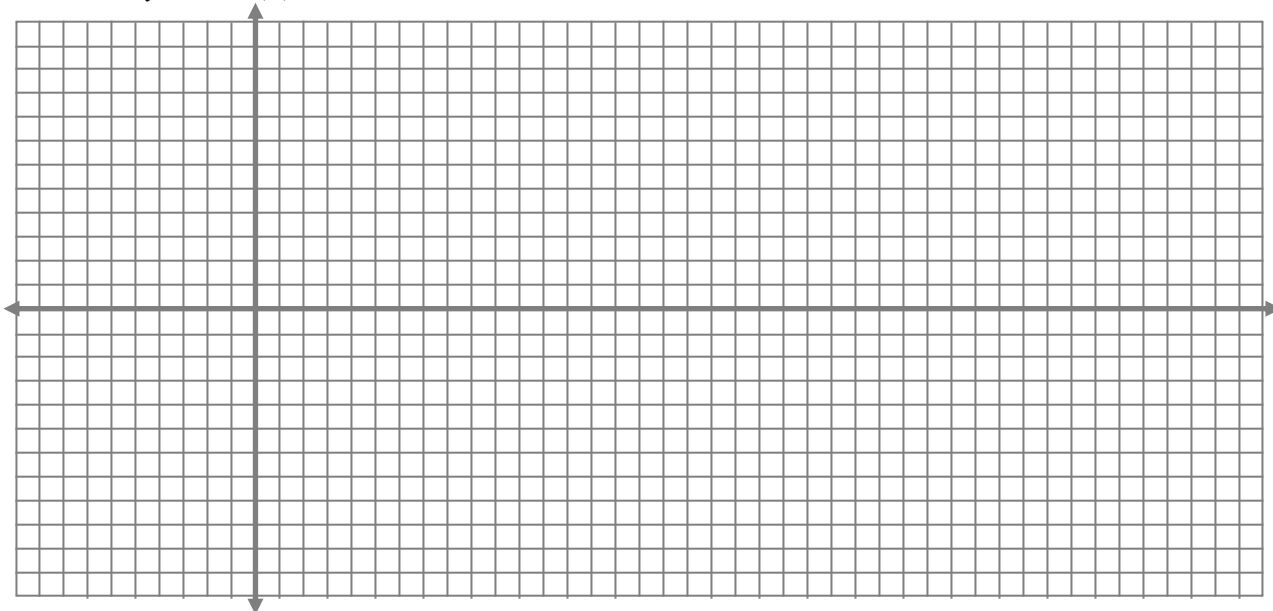
c) _____ d) _____

$y = 5 \sec 4 \left(x + \frac{5\pi}{6} \right) + 3$ a) _____ b) _____

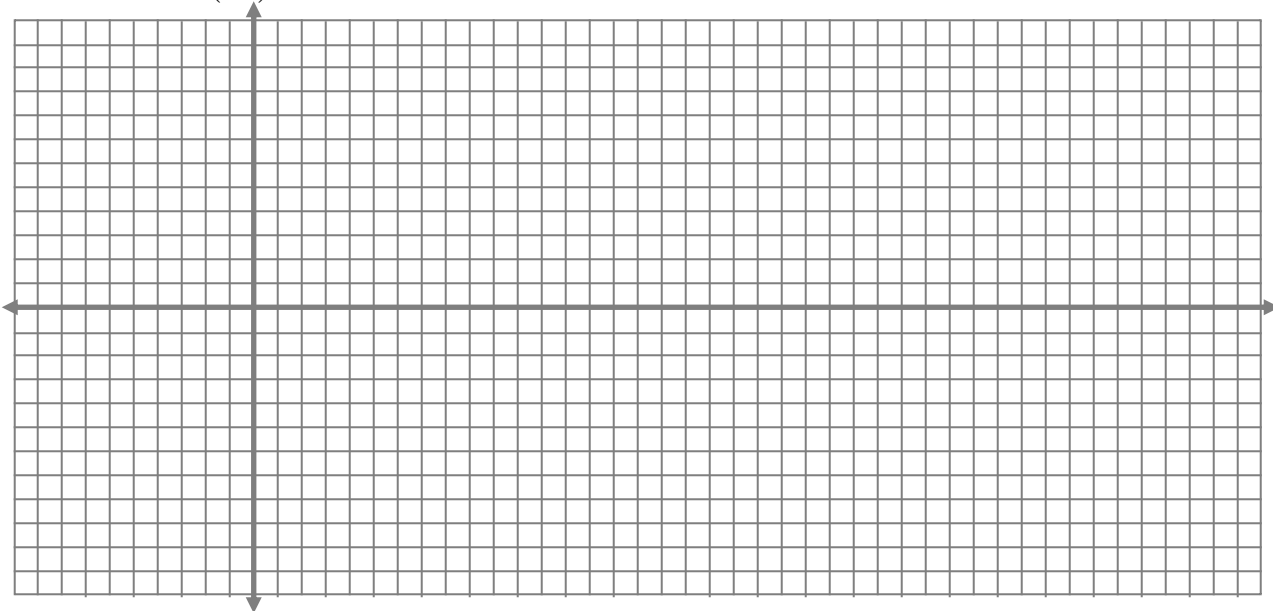
c) _____ d) _____

For each graph, sketch an accurate and complete graph over the domain $0 \leq x \leq 2\pi$.

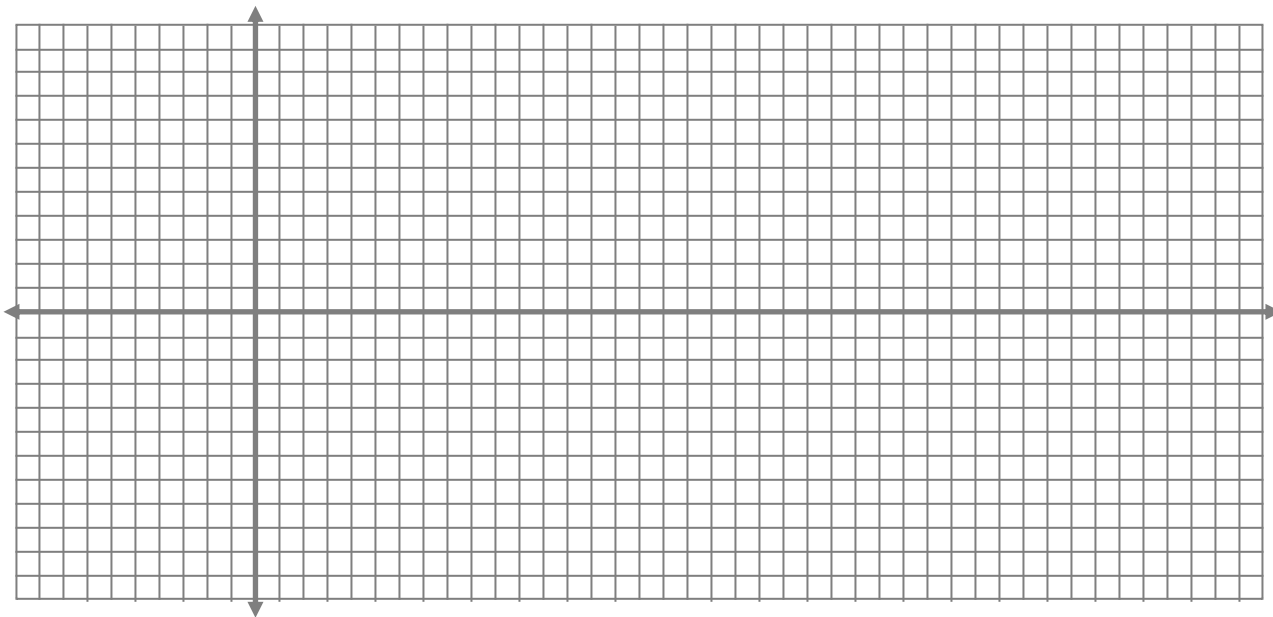
2. Graph: $y = 2 \csc(x) - 1$



3. Graph $y = \sec(2x)$



4. Graph: $y = 0.5 \csc\left(x + \frac{\pi}{3}\right)$



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

