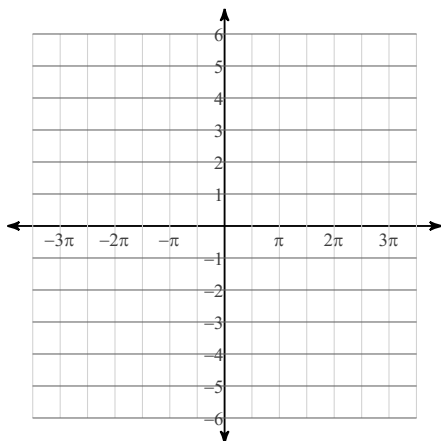


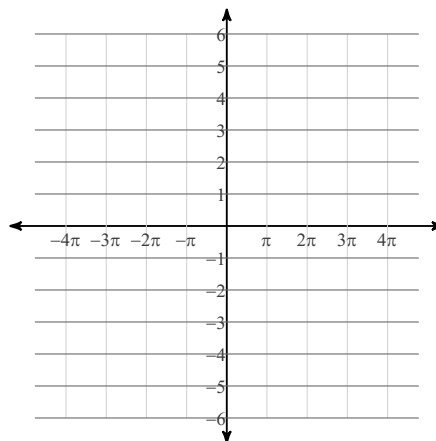
Graphing Csc and Sec

Find the amplitude, the period in radians, the phase shift in radians, and the vertical shift. Then sketch the graph using radians.

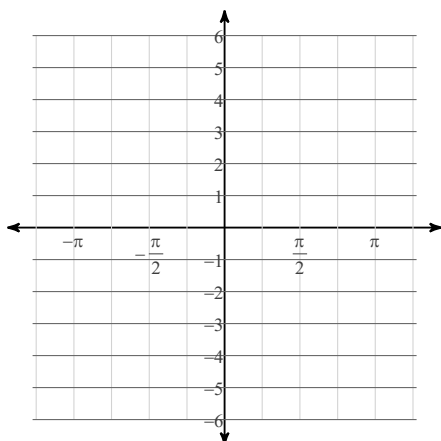
1) $y = 2\csc \frac{\theta}{2}$



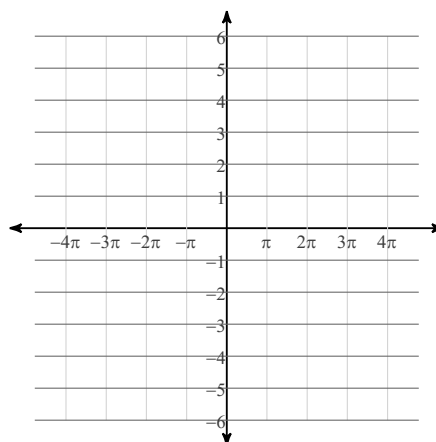
2) $y = 2\sec \frac{\theta}{3}$



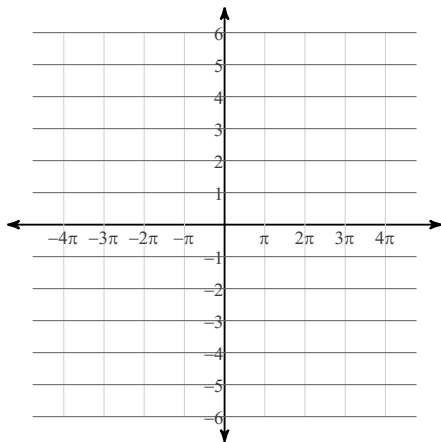
3) $y = \sec 2\theta - 2$



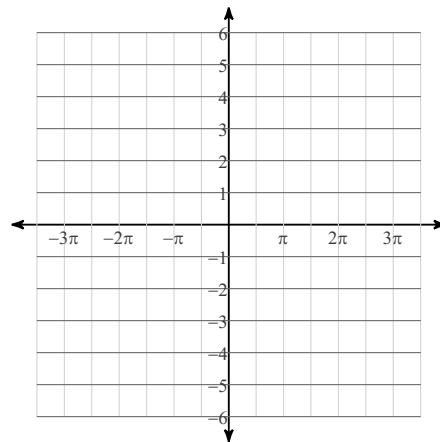
4) $y = \csc \frac{\theta}{3} + 2$



$$5) y = \csc\left(\frac{\theta}{3} - \frac{\pi}{4}\right) - 2$$

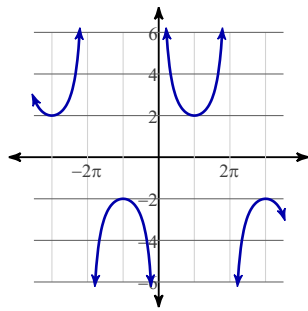


$$6) y = \sec\left(\frac{\theta}{2} + \frac{\pi}{2}\right) + 1$$



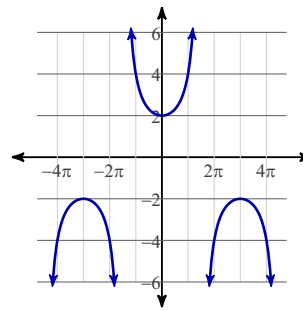
Answers to Graphing Csc and Sec

1)



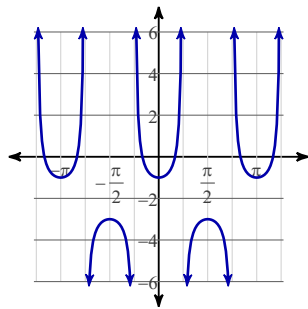
Amplitude: None
Period: 4π
Phase shift: None
Vert. shift: None

2)



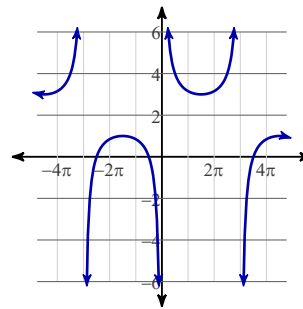
Amplitude: None
Period: 6π
Phase shift: None
Vert. shift: None

3)



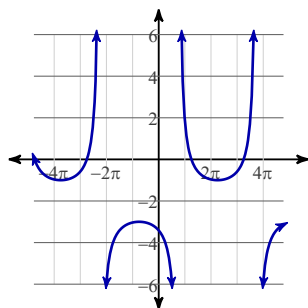
Amplitude: None
Period: π
Phase shift: None
Vert. shift: Down 2

4)



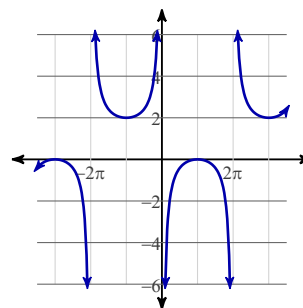
Amplitude: None
Period: 6π
Phase shift: None
Vert. shift: Up 2

5)



Amplitude: None
Period: 6π
Phase shift: Right $\frac{3\pi}{4}$
Vert. shift: Down 2

6)



Amplitude: None
Period: 4π
Phase shift: Left π
Vert. shift: Up 1