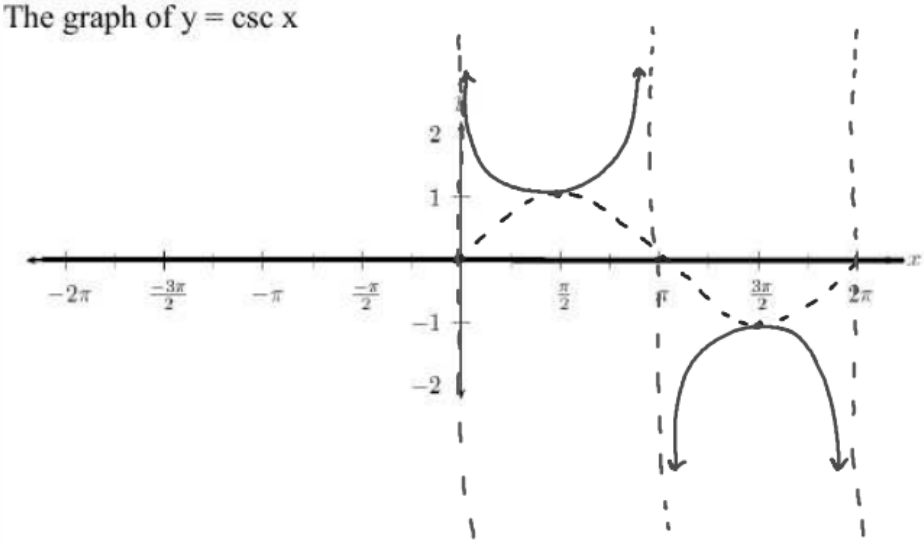
What you'll Learn About

- The graphs of the other 4 trig functions

$\csc x = \frac{1}{\sin x}$

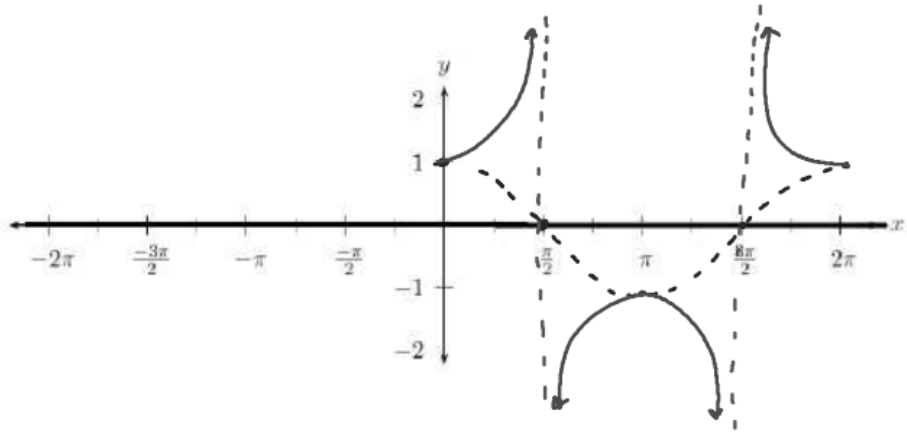
Graph Sine

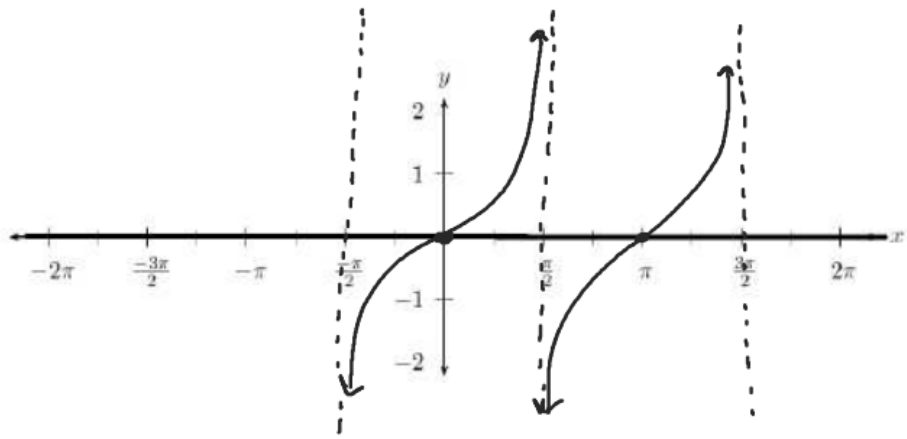
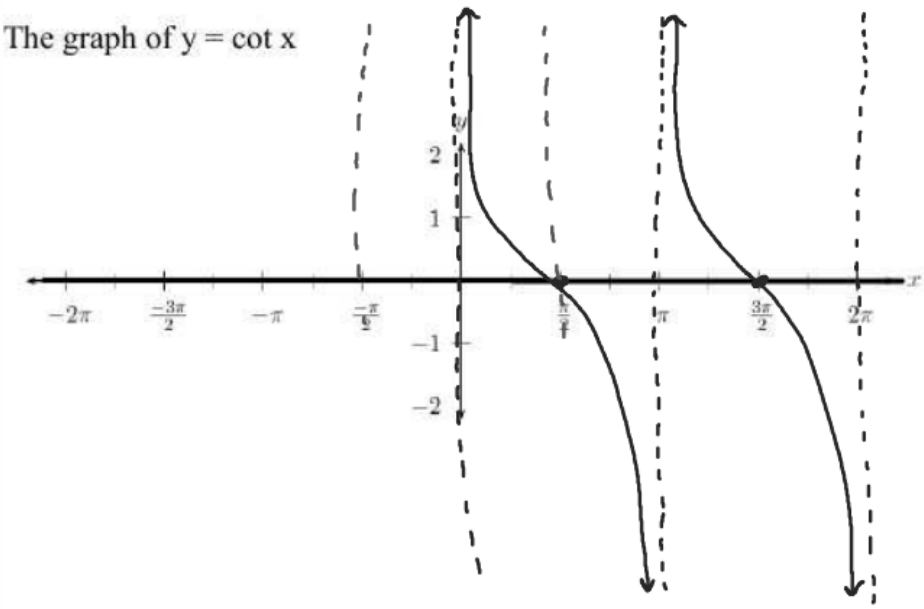
The graph of y = csc x



$\sec x = \frac{1}{\cos x}$

The graph of y = sec x



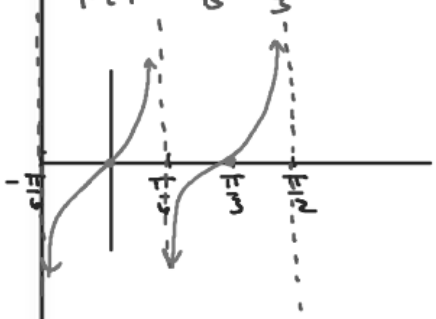
$Per = \frac{2\pi}{B}$ tan/cot Per $\frac{\pi}{B}$	The graph of y = tan x 
$Per = \frac{\pi}{B}$	The graph of y = cot x 

Describe the graph of the function in terms of a basic trigonometric function. Locate the vertical asymptotes and graph 2 periods of the function.

A) y = 2tan(3x)

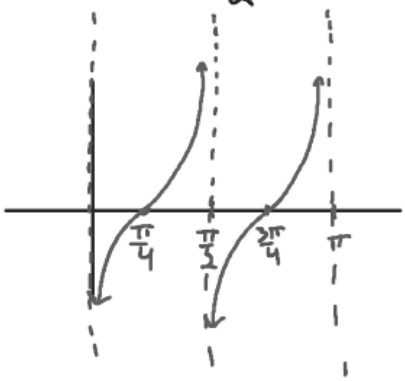
Amp = 2

Per $= \frac{\pi}{B} = \frac{\pi}{3}$



B) y = -cot(2x)

Per $\frac{\pi}{2}$

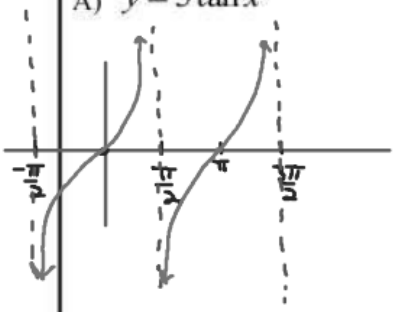


C) y = sec(4x)

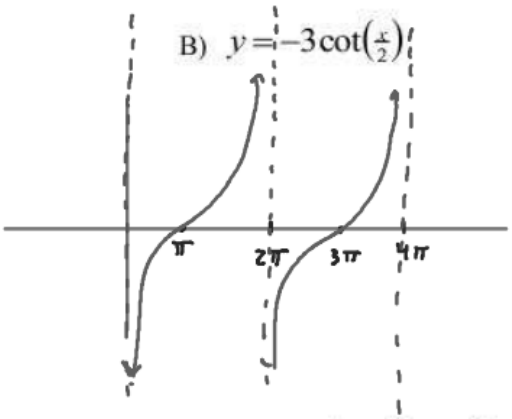
D) $y = -\csc\left(\frac{x}{3}\right)$

Describe the transformations required to obtain the graph of the given function form a basic trigonometric graph.

A) $y = 5\tan x$

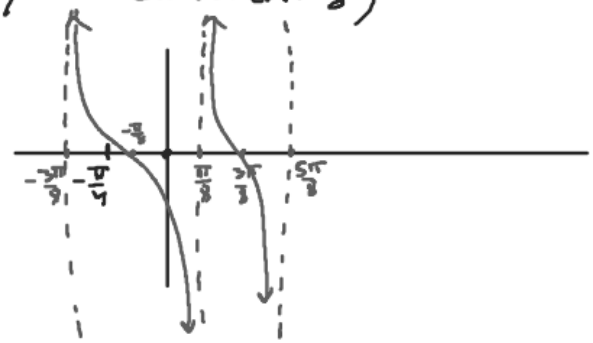


B) $y = -3\cot\left(\frac{x}{2}\right)$



C) $y = 2\sec\frac{4x}{3}$

D) $y = -4\csc 2\pi x - 3$

Amp = 2 Per $\frac{\pi}{2}$ P.S. $\frac{\pi}{8}$ Left	$y = -2\tan 2\left(x + \frac{\pi}{8}\right)$  $y = 2\cot\left(x - \frac{\pi}{2}\right) + 1$