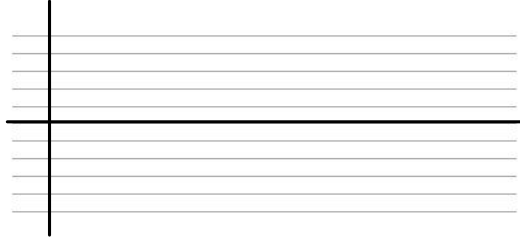


Graphing Cosecant and Secant

Investigating the Cosecant Function

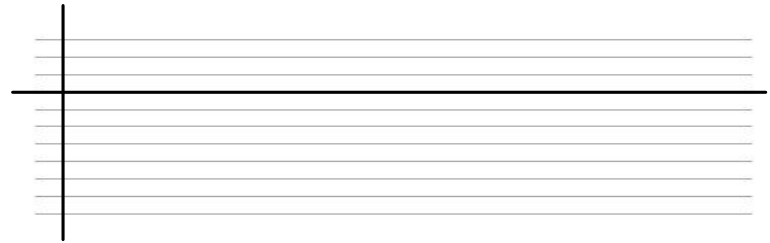
x	$y_1 = \sin x$	$y_2 = \csc x$
0	0	undef.
$\pi/4$	0.7	1.4
$\pi/2$	1	1
$3\pi/4$	0.7	1.4
π	0	undef.
$5\pi/4$	-0.7	-1.4
$3\pi/2$	-1	-1
$7\pi/4$	-0.7	-1.4
2π	0	undef.



Graphing Cosecant

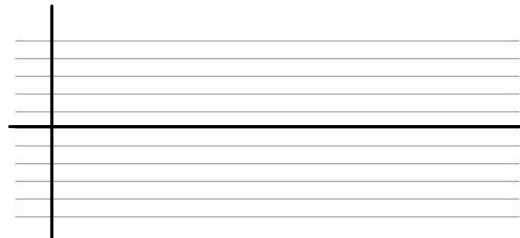
Graph 1 period and state the domain and range of that period.

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



Investigating the Secant Function

x	$y_1 = \cos x$	$y_2 = \sec x$
0	1	1
$\pi/4$	0.7	1.4
$\pi/2$	0	undef.
$3\pi/4$	-0.7	-1.4
π	-1	-1
$5\pi/4$	-0.7	-1.4
$3\pi/2$	0	undef.
$7\pi/4$	0.7	1.4
2π	1	1



Graphing Secant

Graph 1 period and state the domain and range of that period.

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

