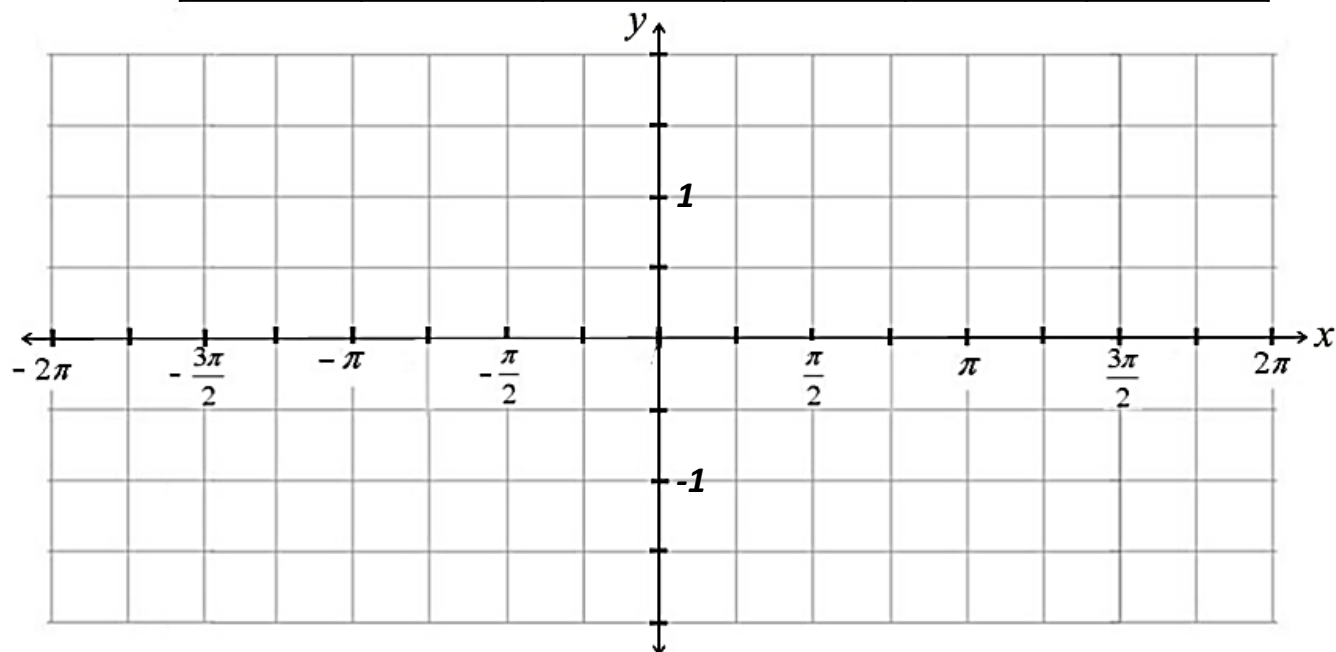


Graphing Practice – All Trig Functions

Part I The Basics – Complete each table and graph at least two periods of each function. Draw asymptotes as needed.

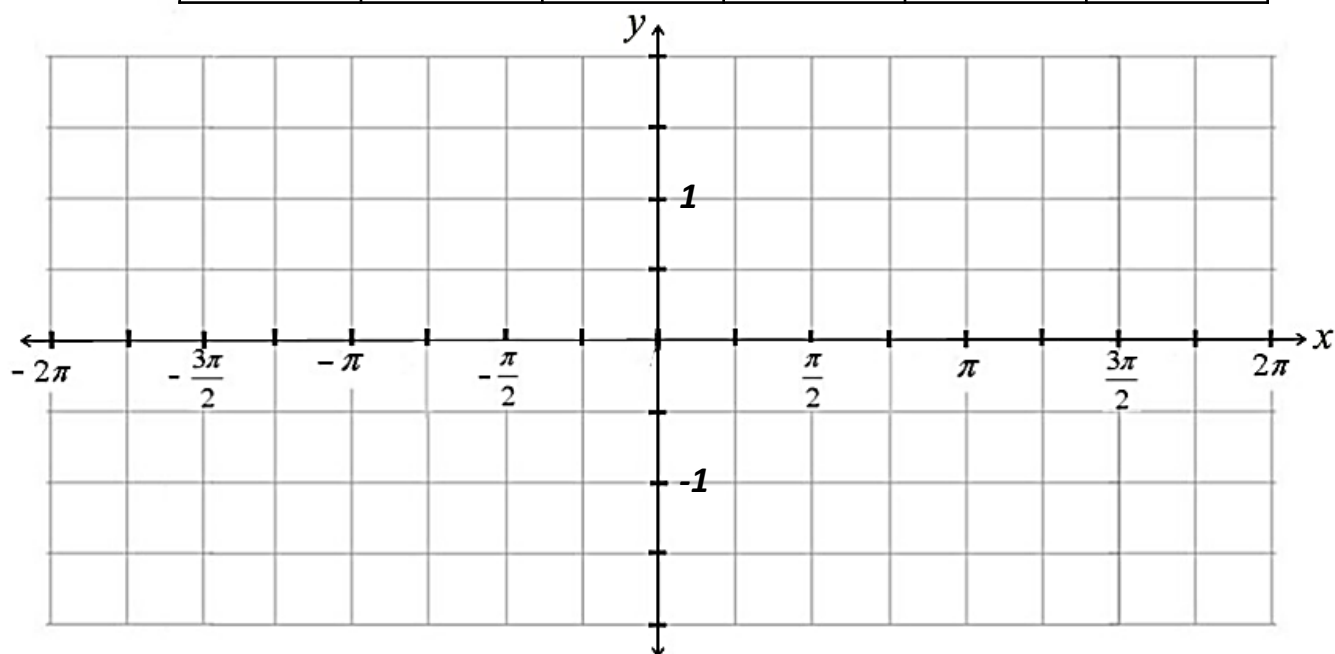
$$y = \sin x$$

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$\sin x$					



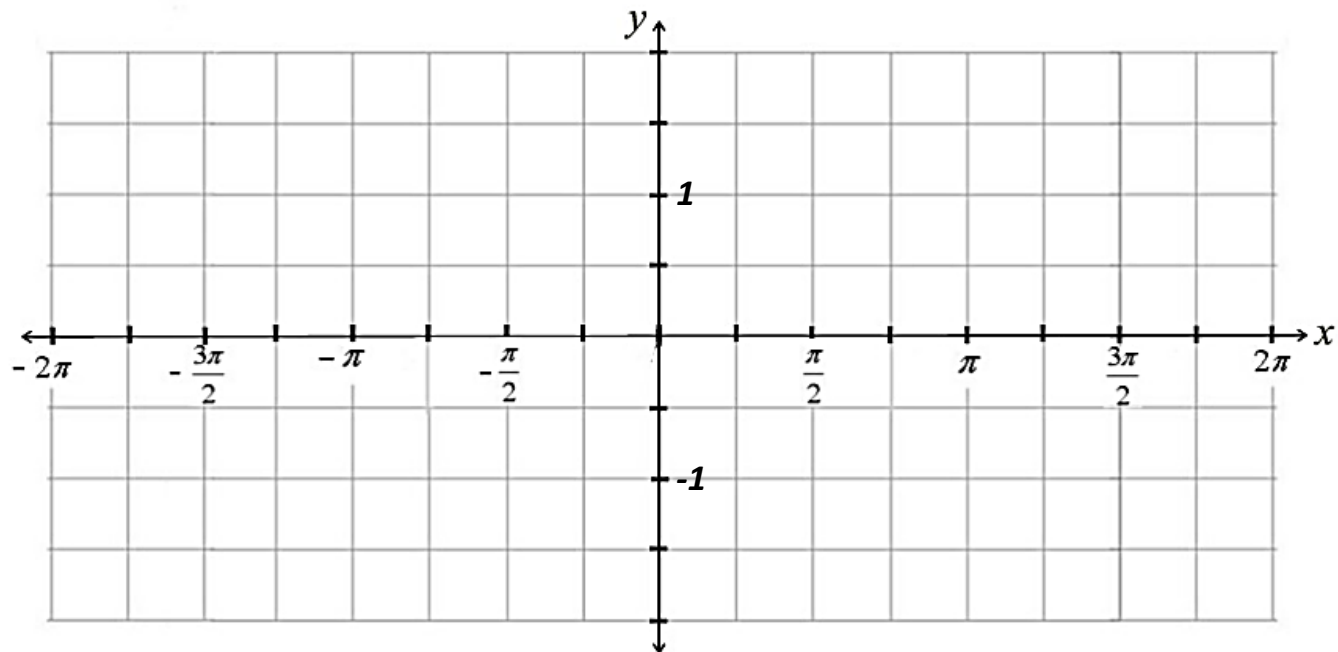
$$y = \cos x$$

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$\cos x$					



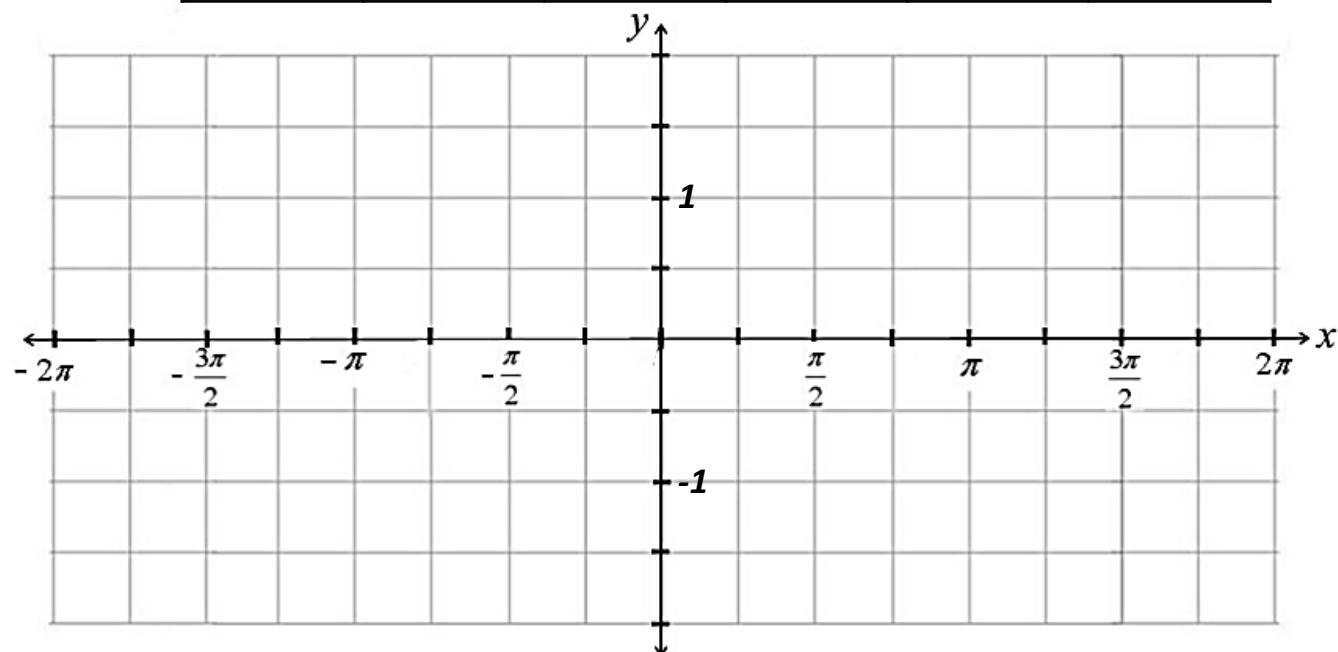
$$y = \csc x$$

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$\csc x$					



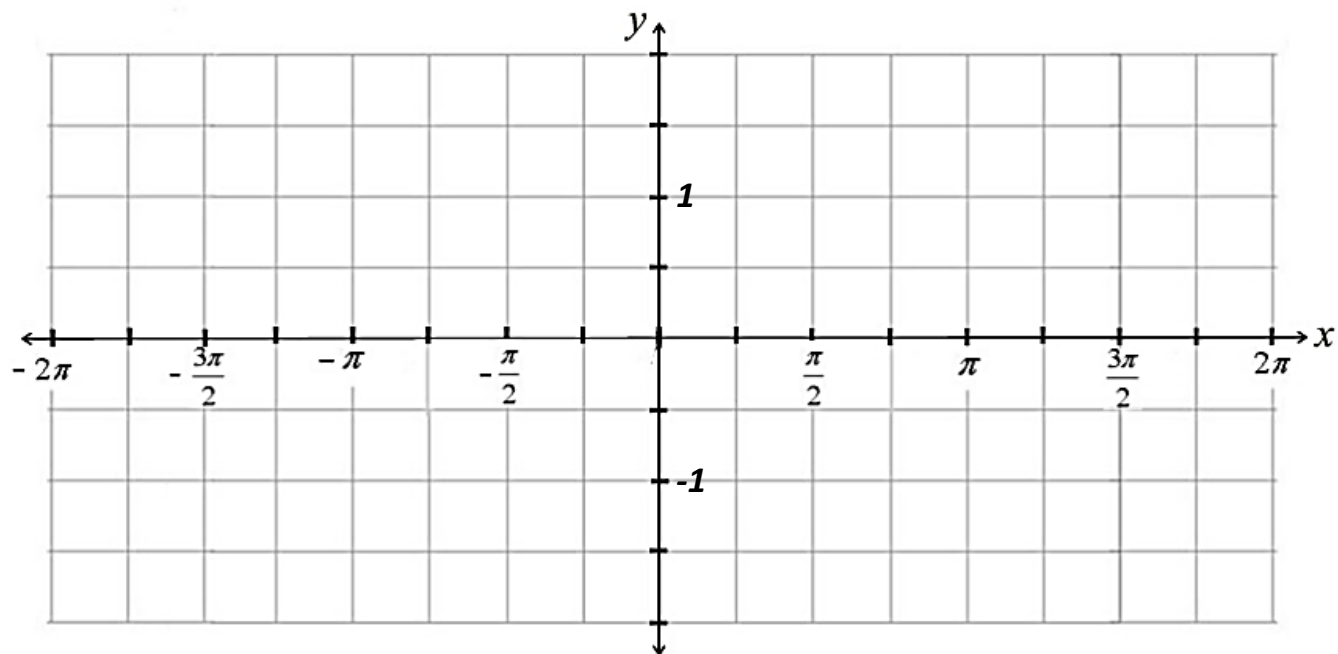
$$y = \sec x$$

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$\sec x$					



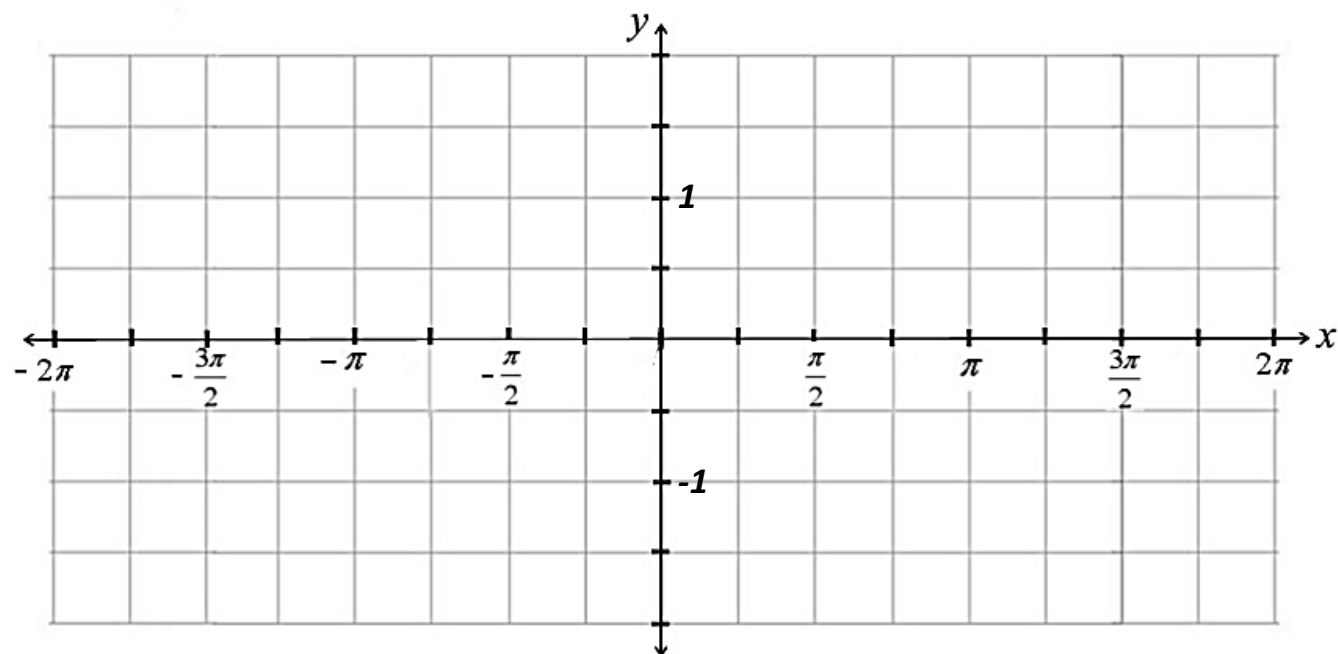
$$y = \tan x$$

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$\tan x$					



$$y = \cot x$$

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
$\cot x$					

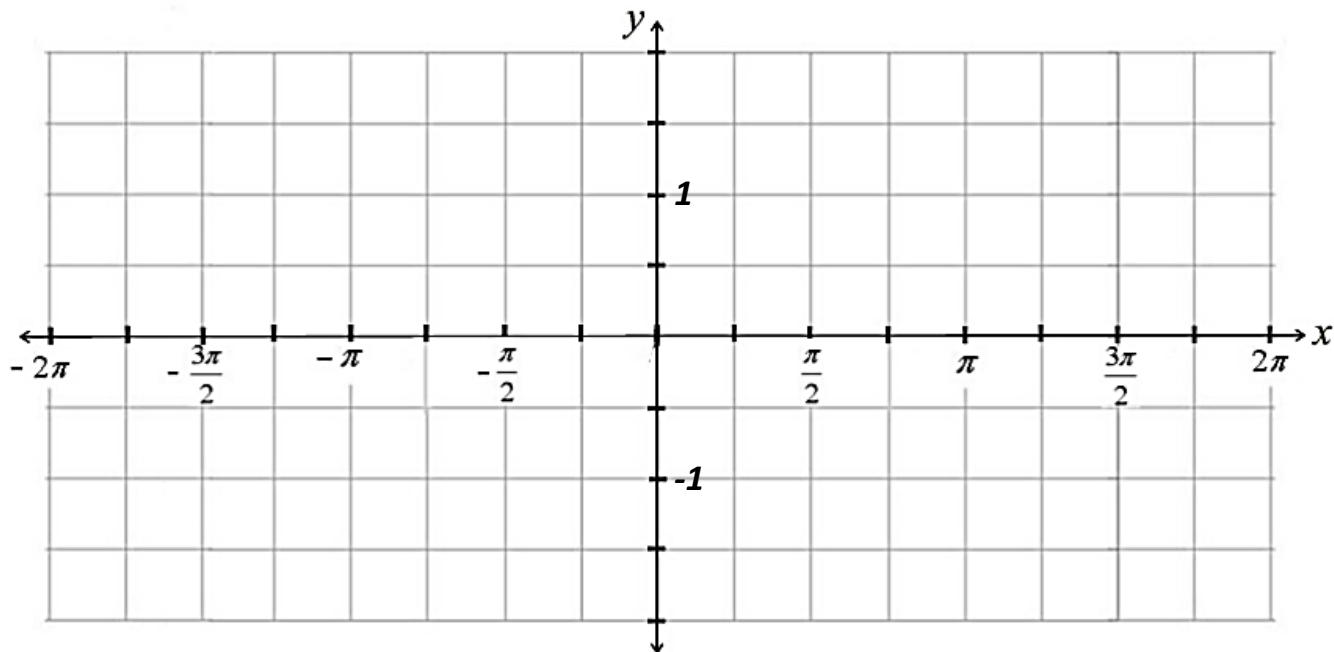


Graphing Practice – All Trig Functions

Part II Graph the following transformed functions.

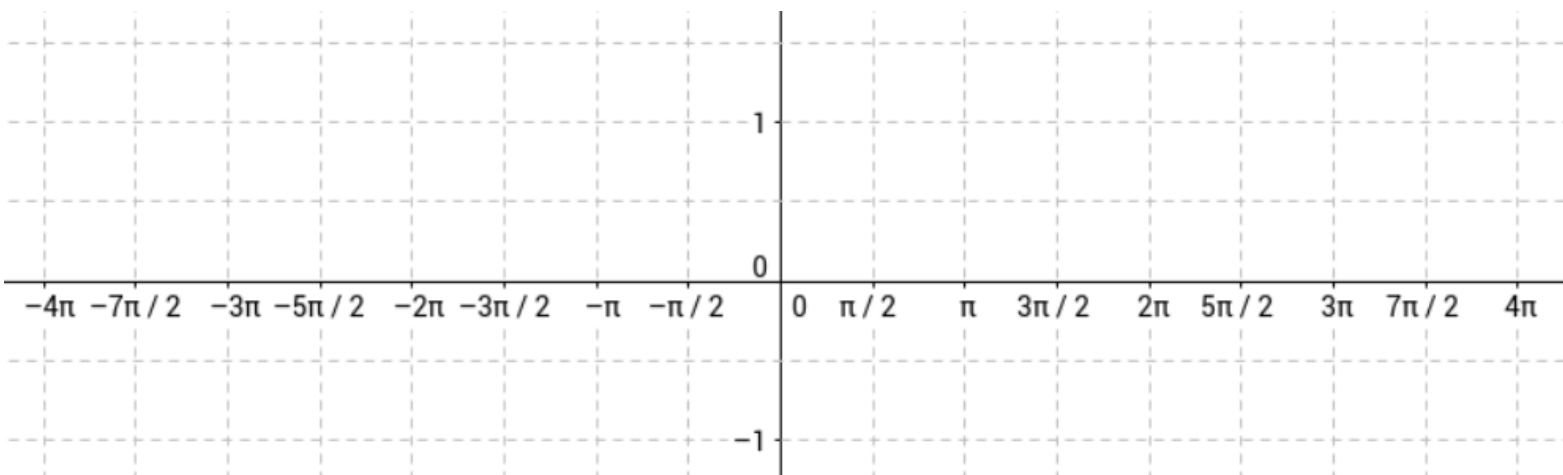
$$y = \frac{1}{2} \sin 2x$$

x	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π
$\sin x$					



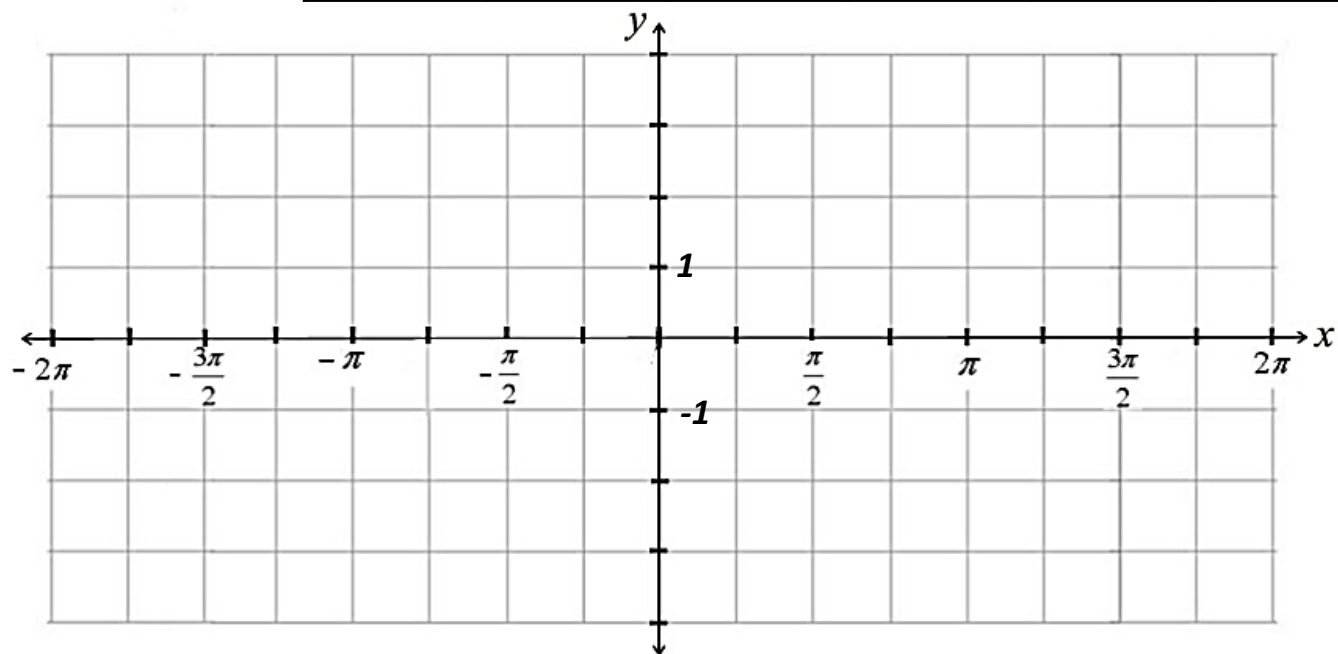
$$y = \cos\left(\frac{1}{2}x + \frac{\pi}{2}\right)$$

x	$-\pi$	0	π	2π	3π
$\cos x$					



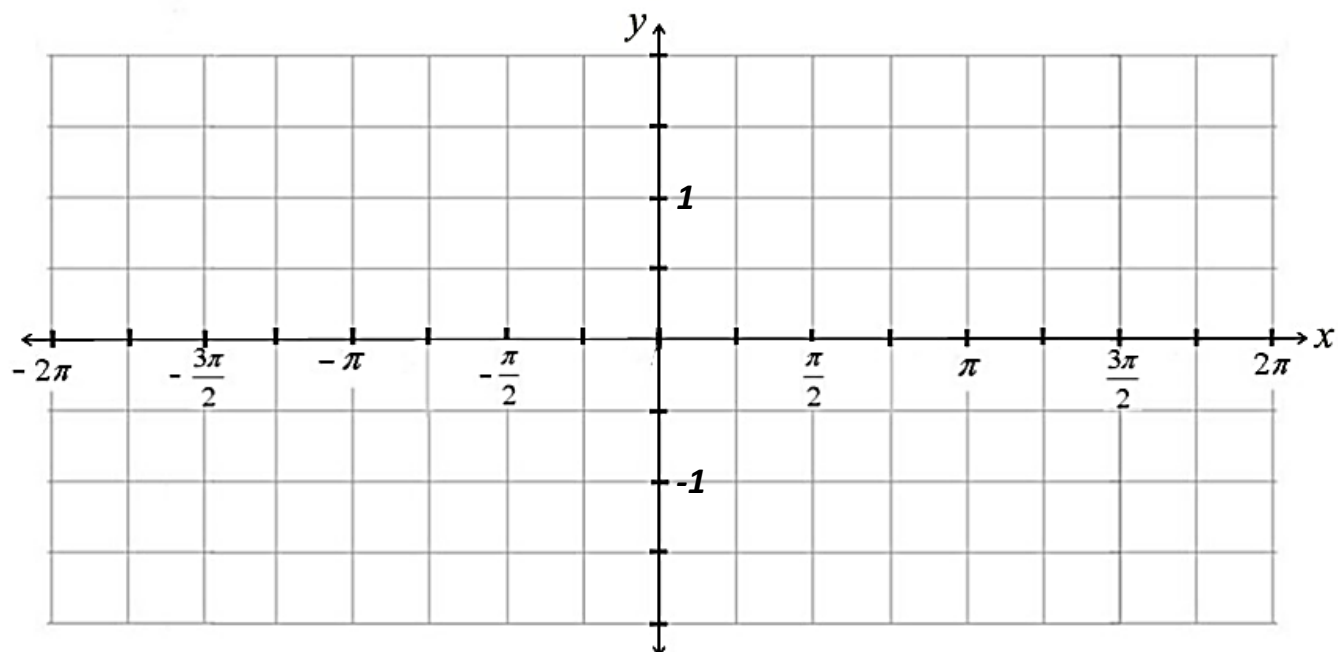
$$y = \csc(2x) - 1$$

x	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π
$\csc x$					

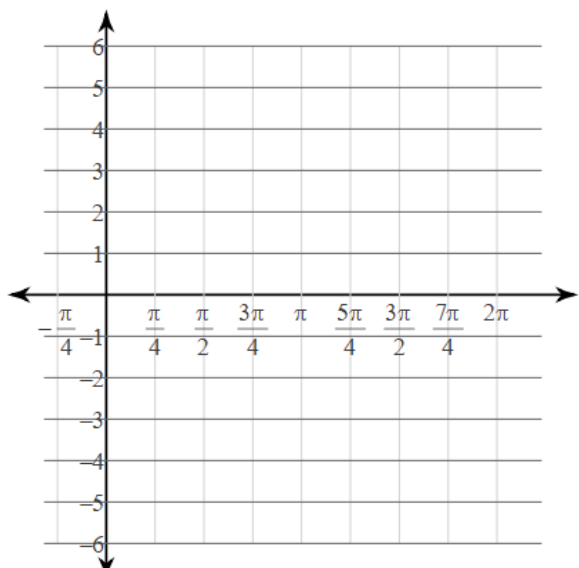


$$y = -\tan\left(x + \frac{\pi}{4}\right)$$

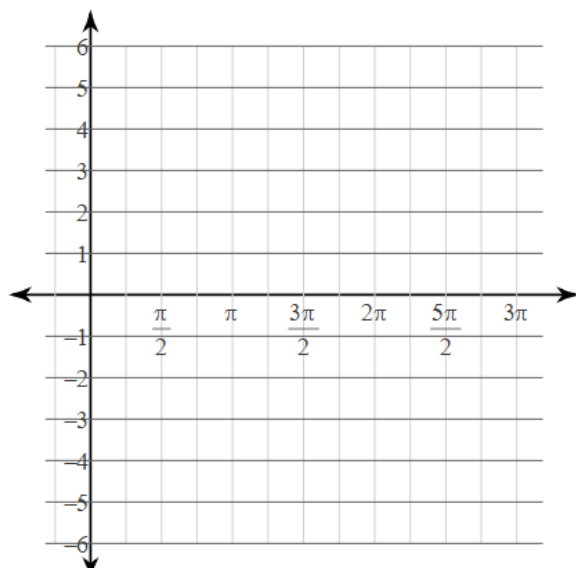
x	$-\frac{\pi}{4}$	$\frac{\pi}{4}$	$\frac{3\pi}{4}$	$\frac{5\pi}{4}$	$\frac{7\pi}{4}$
$\tan x$					



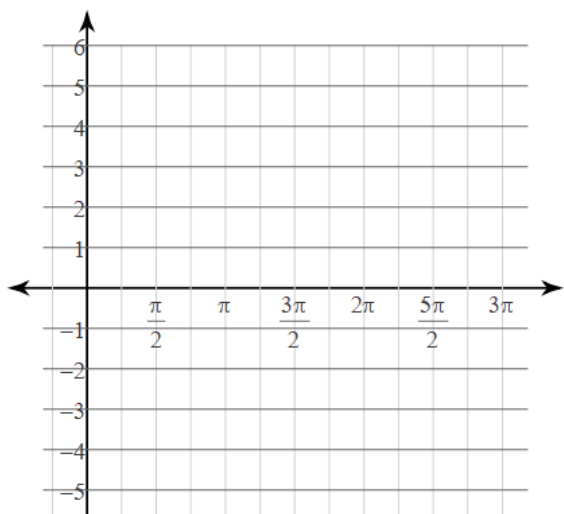
$$1) y = \frac{1}{2} \cdot \cos\left(2\theta + \frac{\pi}{2}\right) - 2$$



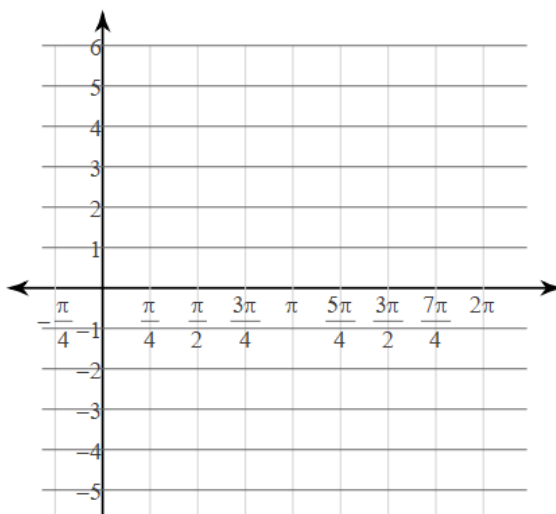
$$2) y = 3\cot\left(\frac{\theta}{2} + \frac{5\pi}{4}\right) - 2$$



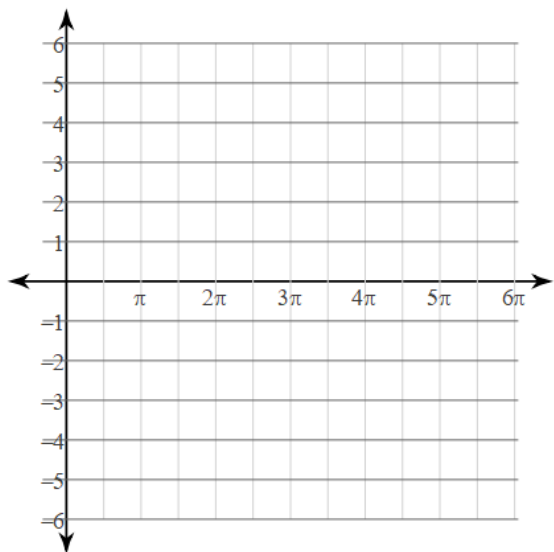
$$3) y = 2\tan\left(\frac{\theta}{2} - \frac{\pi}{4}\right) - 1$$



$$4) y = \sec\left(2\theta + \frac{\pi}{2}\right) + 1$$



$$5) y = \frac{1}{2} \cdot \csc\left(\frac{\theta}{2} + \frac{7\pi}{4}\right) + 1$$



$$6) y = 3\sin\left(2\theta - \frac{7\pi}{4}\right) + 1$$

