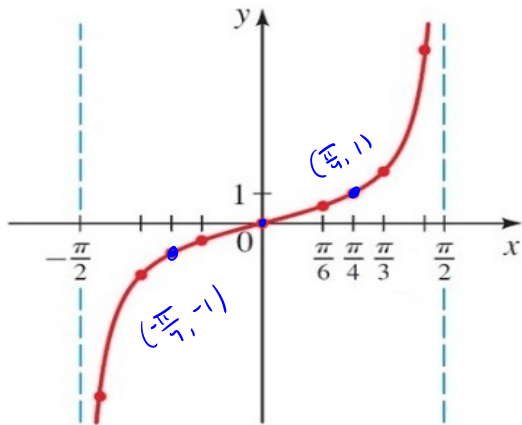
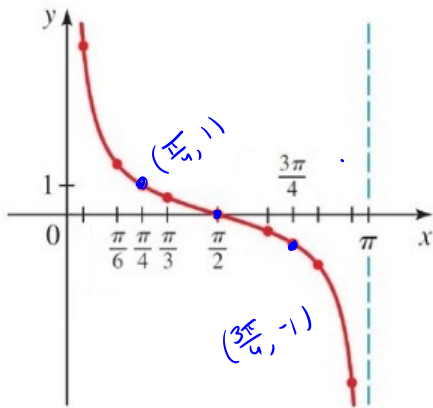


March 2 MATH 1112 sec. 52 Spring 2020



x	$\tan x$
$-\frac{\pi}{2}$	Asympt.
$-\frac{\pi}{4}$	-1
0	0
$\frac{\pi}{4}$	1
$\frac{\pi}{2}$	Asympt.

One period of $y = \tan x$



One period of $y = \cot x$

x	$\cot x$
0	Asympt.
$\frac{\pi}{4}$	1
$\frac{\pi}{2}$	0
$\frac{3\pi}{4}$	-1
π	Asympt.

Plot $y = 3 \tan(2x) + 1$

x	$\tan x$
$\frac{\pi}{2}$	undef.
$\frac{\pi}{4}$	-1
0	0
$\frac{\pi}{4}$	-
$\frac{\pi}{2}$	undef.

$$y = a \tan(bx) + d$$

period is $\frac{\pi}{b}$

The period

is $\frac{\pi}{2} = \frac{\pi}{2}$

x	2x
$\frac{\pi}{4}$	$\frac{\pi}{2}$
$\frac{\pi}{2}$	$\frac{\pi}{4}$
0	0
$\frac{\pi}{4}$	$\frac{\pi}{2}$
$\frac{\pi}{2}$	undef.

Plot $y = 3 \tan(2x) + 1$

x	$\tan(2x)$	$3 \tan(2x) + 1$
$-\pi/5$	undef	undef
$-\pi/10$	-1	-2
0	0	1
$ \pi/10$	1	4
$ \pi/5$	undef	undef

$$\text{Plot } y = 3 \tan(2x) + 1$$

