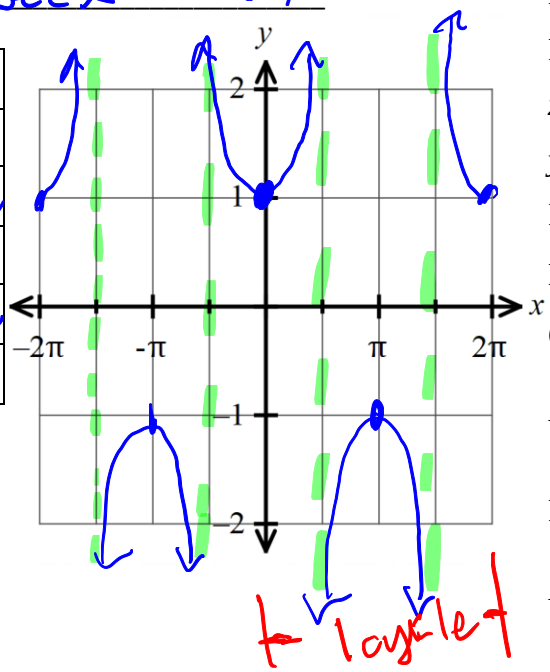
Name of Graph: secant

Equation: $y = \sec x$ $f(\theta) = \sec\theta$

x	$f(x)$
0	1
$\pi/2$	undef
π	-1
$3\pi/2$	undef
2π	1



1 cycle

Key Features

Domain: $x \neq \frac{\pi}{2} + \pi k$

Range: $(-\infty, -1] \cup [1, \infty)$

x-intercept(s): none

y-intercept: $(0, 1)$

Increasing: periodic

Decreasing: periodic

Constant: none

Positive: periodic

Negative: periodic

Maximums /Minimums: relative -1, $+1$

Symmetry: even

End Behavior:

$\lim_{x \to -\infty} f(x) =$ N/A

$\lim_{x \to \infty} f(x) =$ N/A

Vertical stretch: 1

Vertical Shift: 0 midline $y = 0$

Period: 2π

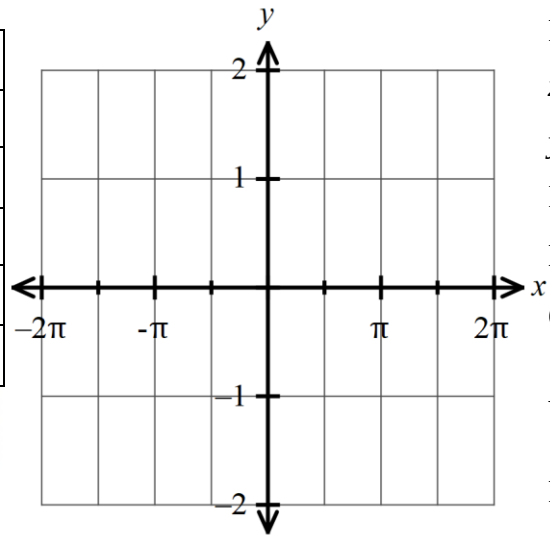
Phase Shift: 0

Asymptote equation: $x = \frac{\pi}{2} + \pi k$

Name of Graph: _____

Equation: _____

x	$f(x)$



Key Features

Domain:

Range:

x-intercept(s):

y-intercept:

Increasing:

Decreasing:

Constant:

Positive:

Negative:

Maximums /Minimums

Symmetry:

End Behavior:

$\lim_{x \to -\infty} f(x) =$

$\lim_{x \to \infty} f(x) =$

Vertical stretch:

Vertical Shift:

Period:

Phase Shift:

Asymptote equation:

Steps for solving secant equation:

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