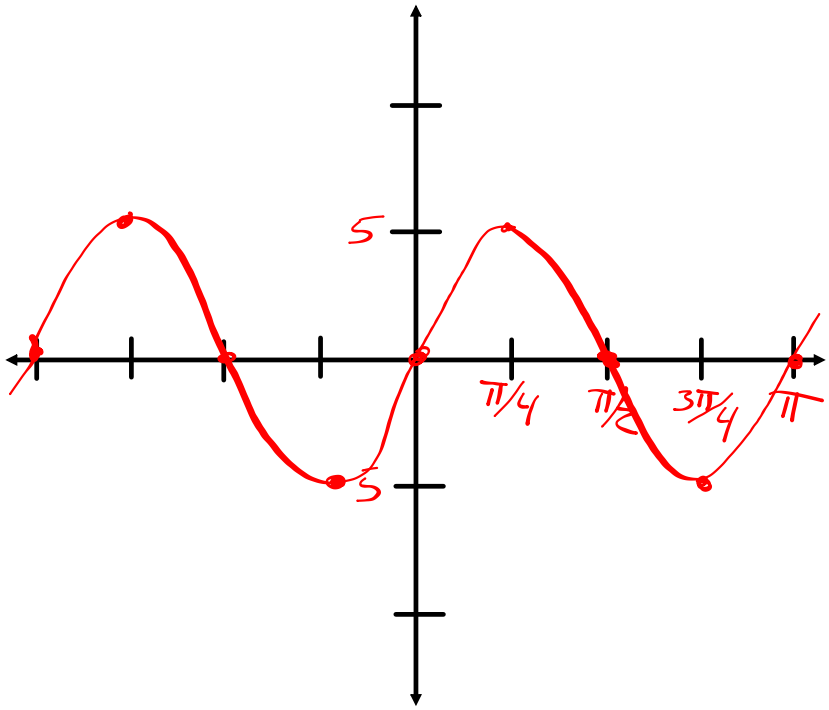
Warm-up 1/26/17
Graph
$y = 5 \sin 2x$

amp. 5

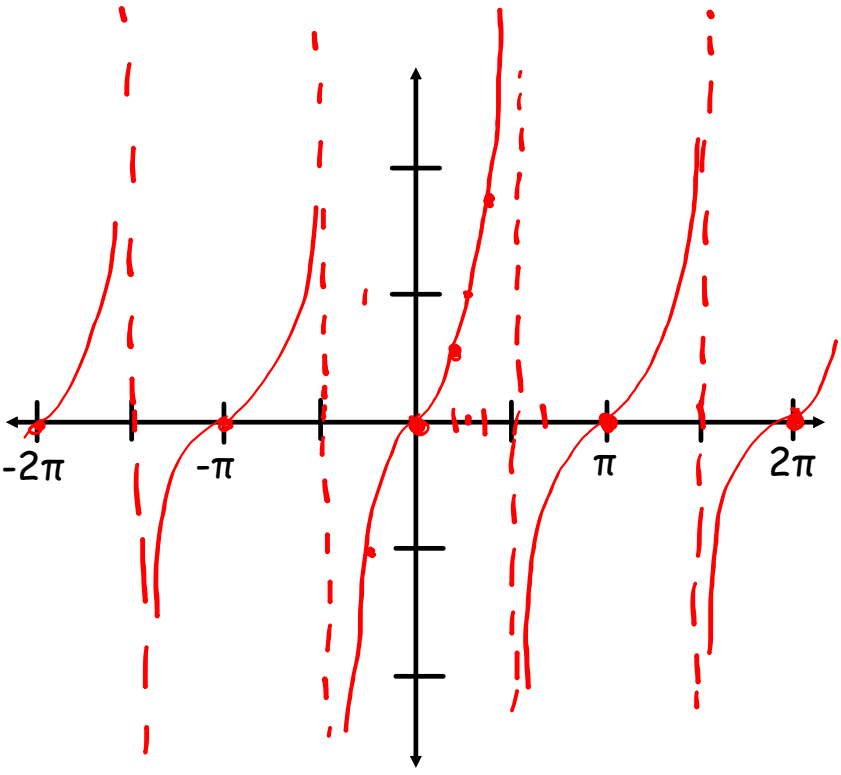
per. π



4.5: Graphs of Tangent, Cotangent, Secant, and Cosecant

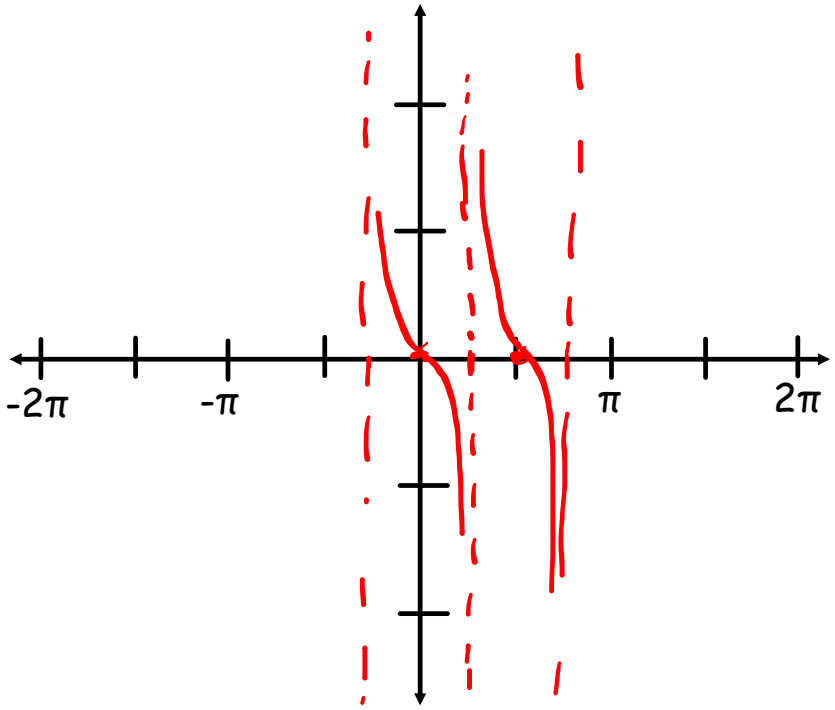
Graph of $y = \tan x$

x	y
0	0
π/6	$\sqrt{3}/3 \approx .577$
π/4	1
π/3	$\sqrt{3} \approx 1.73$
π/2	undefined
π	0
3π/2	undefined
2π	0



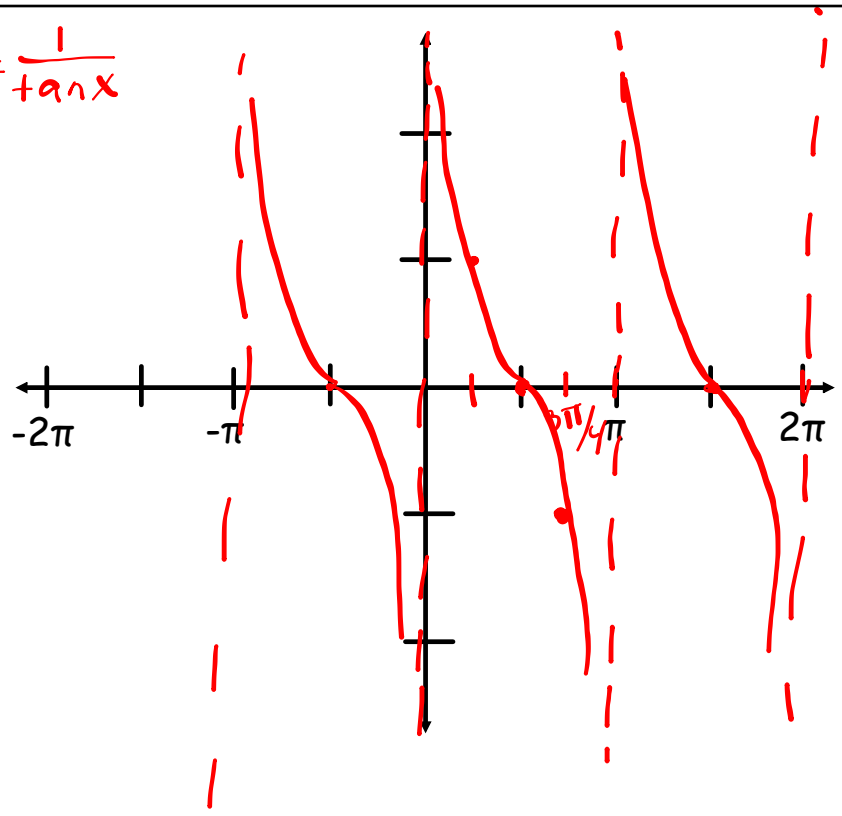
Graph y = -tan 2x

x	y
0	0
π/2	0
π/4	



Graph of y = cot x = $\frac{1}{\tan x}$

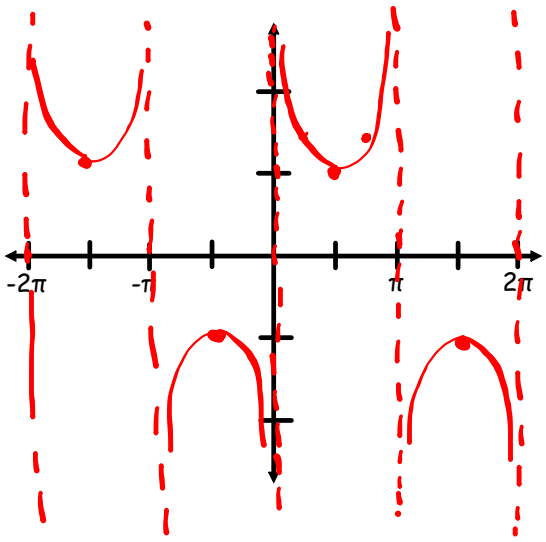
x	y
0	undefined
π/2	0
3π/4	-1



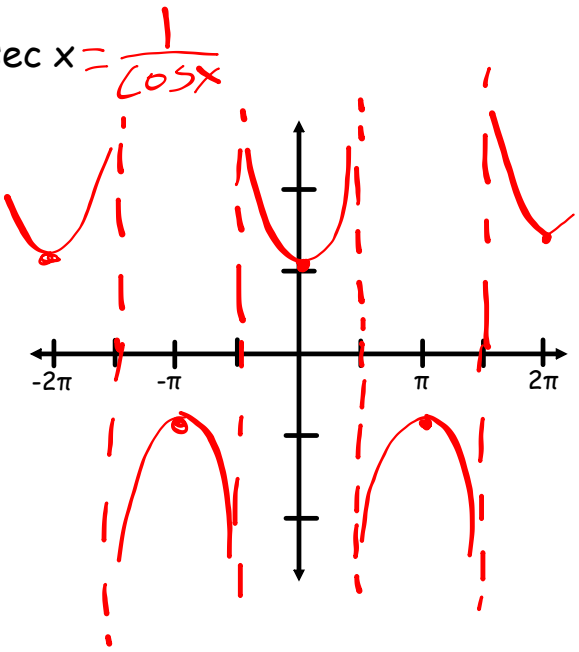
Graphing Calculator

Secant and Cosecant Graphs

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

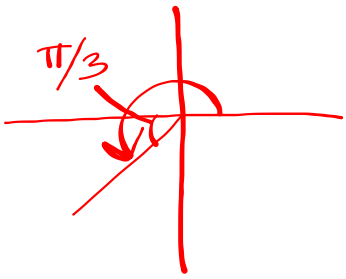


y = sec x $= \frac{1}{\cos x}$



Graphing Calculator

Find the value of x between π and 3π/2 that solves sec x = -2.



$\frac{4\pi}{3}$

$\cos x = -\frac{1}{2}$

Find the smallest positive value of x such that $x^2 = \csc x$.

Graphing Calculator

1.075

Assignment: pp. 365 - 367

1 - 4, 13 - 16, 21 - 35 odds, 54