

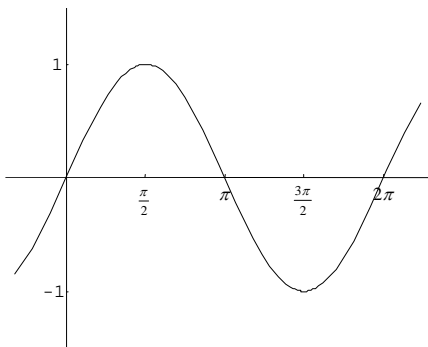


# Graphs of Trig Functions

Domain:  $(-\infty, \infty)$

Range:  $[-1, 1]$

Period:  $2\pi$

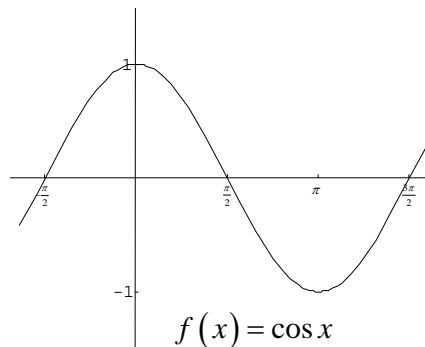


$$f(x) = \sin x$$

Domain:  $(-\infty, \infty)$

Range:  $[-1, 1]$

Period:  $2\pi$

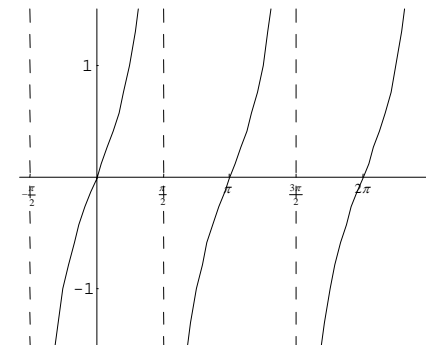


$$f(x) = \cos x$$

Domain:  $\left(\left(k - \frac{1}{2}\right)\pi, \left(k + \frac{1}{2}\right)\pi\right)$

Range:  $(-\infty, \infty)$

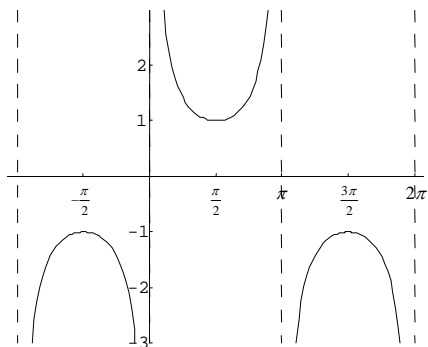
Period:  $\pi$



$$f(x) = \tan x$$

Domain:  $((k-1)\pi, k\pi)$

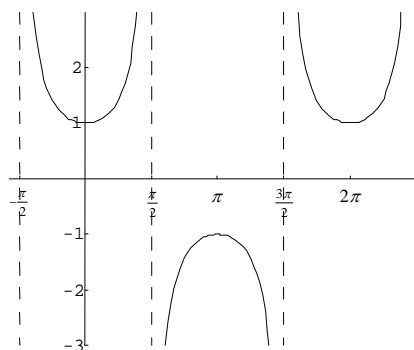
Range:  $(-\infty, -1] \cup [1, \infty)$



$$f(x) = \csc x = \frac{1}{\sin x}$$

Domain:  $\left(\left(k - \frac{1}{2}\right)\pi, \left(k + \frac{1}{2}\right)\pi\right)$

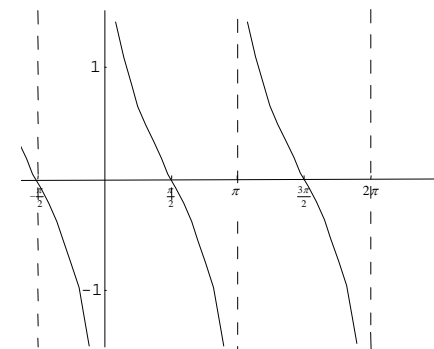
Range:  $(-\infty, -1] \cup [1, \infty)$



$$f(x) = \sec x = \frac{1}{\cos x}$$

Domain:  $((k-1)\pi, k\pi)$

Range:  $(-\infty, \infty)$



$$f(x) = \cot x = \frac{1}{\tan x}$$