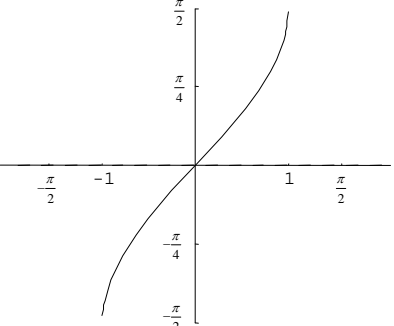
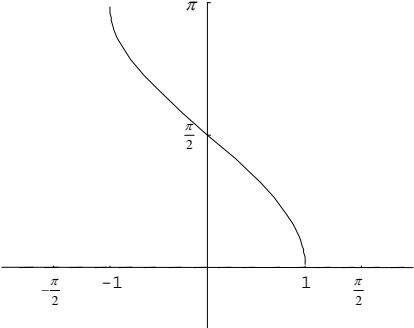
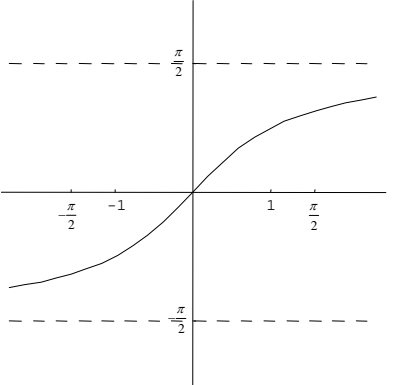
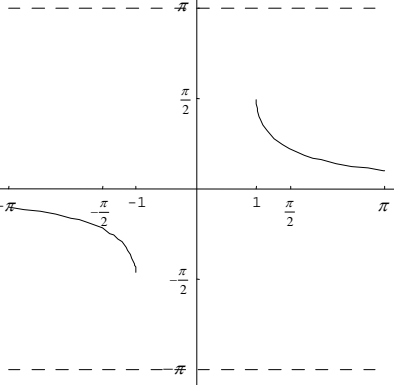
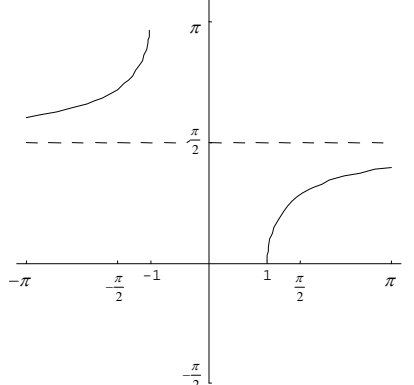
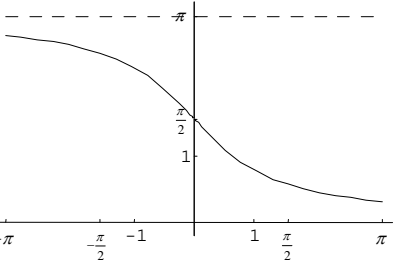


Graphs of Inverse Trig Functions

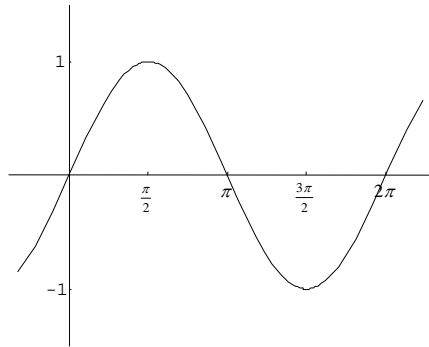
<p>Domain: $[-1, 1]$ Range: $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$</p>  <p>$f(x) = \sin^{-1} x$ $f(x) = \arcsin x$</p>	<p>Domain: $[-1, 1]$ Range: $[0, \pi]$</p>  <p>$f(x) = \cos^{-1} x$ $f(x) = \arccos x$</p>	<p>Domain: $(-\infty, \infty)$ Range: $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$</p>  <p>$f(x) = \tan^{-1} x$ $f(x) = \arctan x$</p>
<p>Domain: $(-\infty, -1] \cup [1, \infty)$ Range: $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right], y \neq 0$</p>  <p>$f(x) = \csc^{-1} x$ $f(x) = \operatorname{arccsc} x$</p>	<p>Domain: $(-\infty, -1] \cup [1, \infty)$ Range: $[0, \pi], y \neq \frac{\pi}{2}$</p>  <p>$f(x) = \sec^{-1} x$ $f(x) = \operatorname{arcsec} x$</p>	<p>Domain: $(-\infty, \infty)$ Range: $(0, \pi)$</p>  <p>$f(x) = \cot^{-1} x$ $f(x) = \operatorname{arccot} x$</p>

Graphs of Trig Functions

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

Range: $[-1, 1]$

Period: 2π

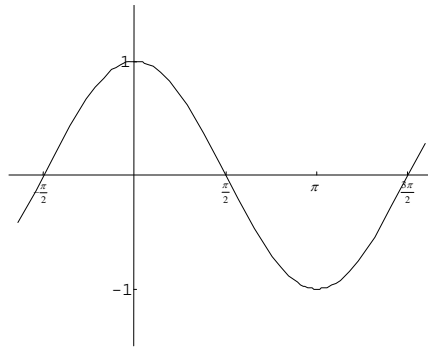


$$f(x) = \sin x$$

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

Range: $[-1, 1]$

Period: 2π

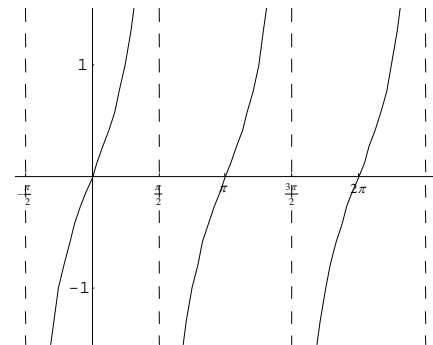


$$f(x) = \cos x$$

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

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

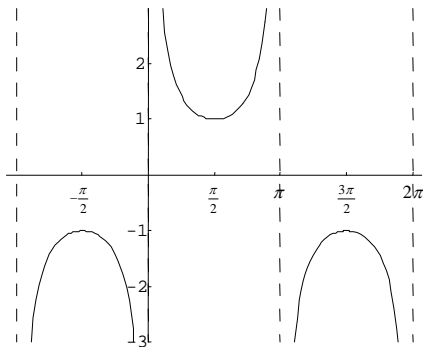
Period: π



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

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

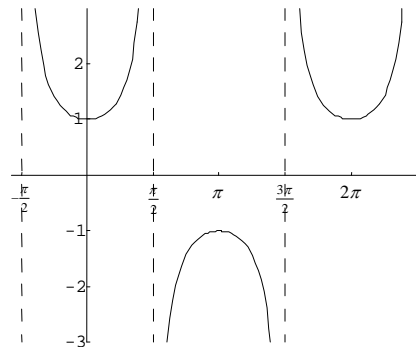
Range: $(-\infty, -1] \cup [1, \infty)$



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

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

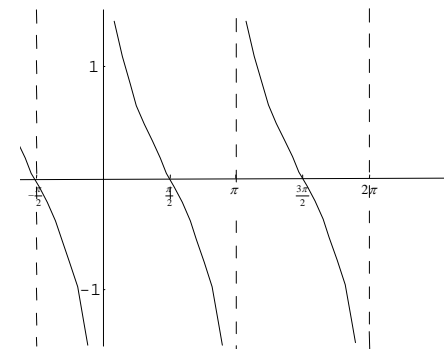
Range: $(-\infty, -1] \cup [1, \infty)$



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

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

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



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