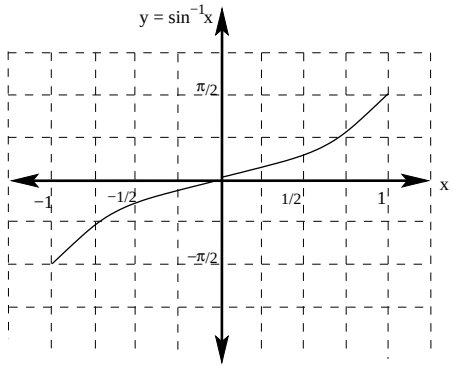
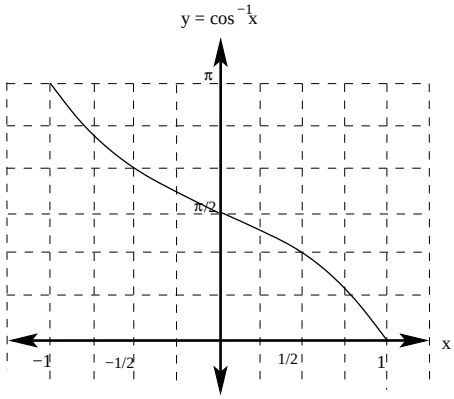
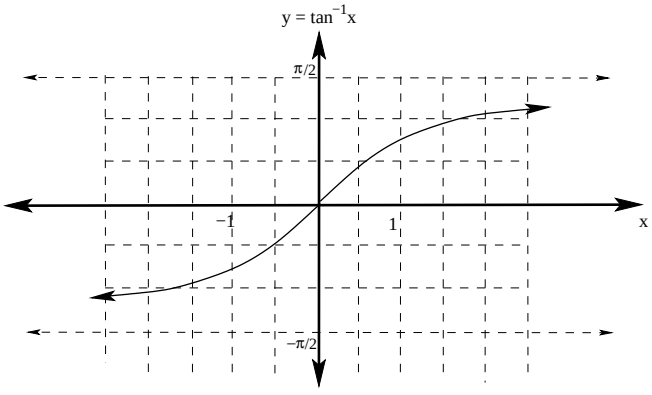
Math 143
Inverse Trig Functions
03/26/2007

Inverse Trig Functions

Definition	Domain	Range	Graph
$y = \sin^{-1} x$ iff $x = \sin y$	$-1 \leq x \leq 1$	$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$	
$y = \cos^{-1} x$ iff $x = \cos y$	$-1 \leq x \leq 1$	$0 \leq y \leq \pi$	
$y = \tan^{-1} x$ iff $x = \tan y$	$-\infty < x < \infty$	$-\frac{\pi}{2} < y < \frac{\pi}{2}$