
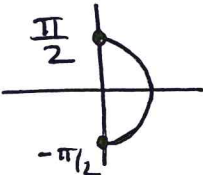



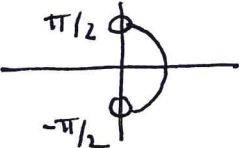

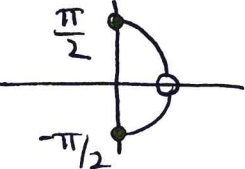
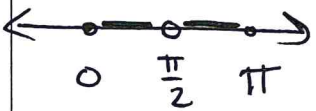


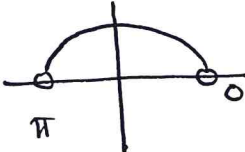


Section 4.7
Ranges of inverse trig functions

Precalculus

Name Key
Period _____

<u>Function</u>	<u>Number Line</u>	<u>Unit Circle</u>	<u>Inequality</u>	<u>Interval</u>
$y = \sin^{-1} x$			$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$	$[-\pi/2, \pi/2]$
$y = \cos^{-1} x$			$0 \leq y \leq \pi$	$[0, \pi]$
$y = \tan^{-1} x$			$-\frac{\pi}{2} < y < \frac{\pi}{2}$	$(-\pi/2, \pi/2)$
$y = \csc^{-1} x$			$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$ $y \neq 0$	$[-\pi/2, 0) \cup (0, \pi/2]$
$y = \sec^{-1} x$			$0 \leq y \leq \pi$ $y \neq \pi/2$	$[0, \pi/2) \cup (\pi/2, \pi]$
$y = \cot^{-1} x$			$0 < y < \pi$	$(0, \pi)$