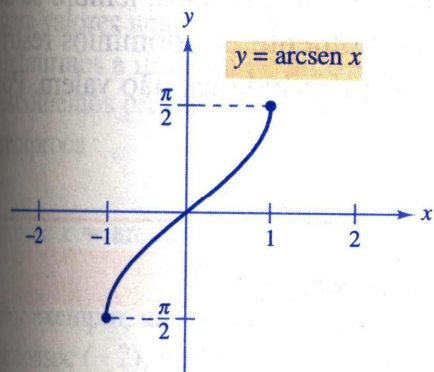


Definições das Funções Trigonométricas Inversas

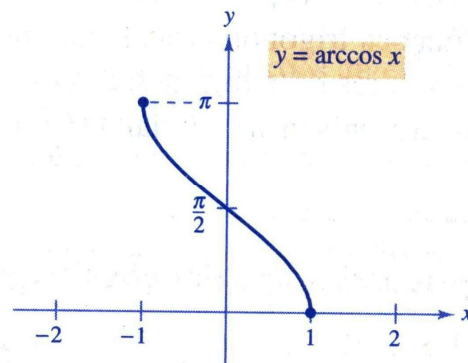
<u>Função</u>	<u>Domínio</u>	<u>Imagem</u>
$y = \arcsen x \Leftrightarrow \sen y = x$	$-1 \leq x \leq 1$	$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$
$y = \arccos x \Leftrightarrow \cos y = x$	$-1 \leq x \leq 1$	$0 \leq y \leq \pi$

Definições das Funções Trigonométricas Inversas (Continuação)

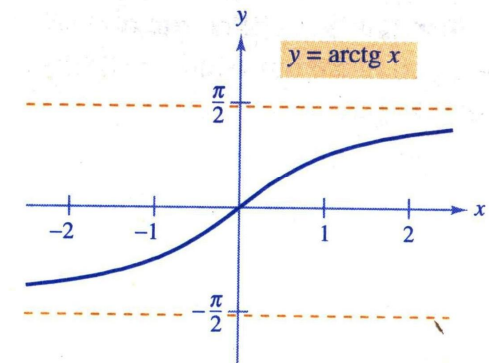
<u>Função</u>	<u>Domínio</u>	<u>Imagem</u>
$y = \arctg x \Leftrightarrow tg y = x$	$-\infty < x < \infty$	$-\frac{\pi}{2} < y < \frac{\pi}{2}$
$y = \text{arccotg } x \Leftrightarrow \text{cotg } y = x$	$-\infty < x < \infty$	$0 < y < \pi$
$y = \text{arcsec } x \Leftrightarrow \sec y = x$	$ x \geq 1$	$0 \leq y \leq \pi, \quad y \neq \frac{\pi}{2}$
$y = \text{arccossec } x \Leftrightarrow \text{cossec } y = x$	$ x \geq 1$	$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}, \quad y \neq 0$



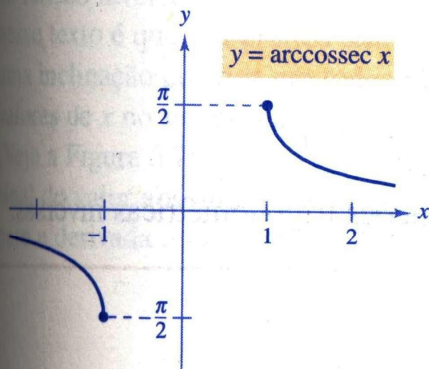
Domínio: $[-1, 1]$
Imagem: $[-\pi/2, \pi/2]$



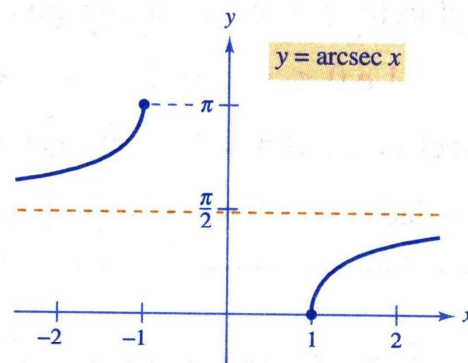
Domínio: $[-1, 1]$
Imagem: $[0, \pi]$



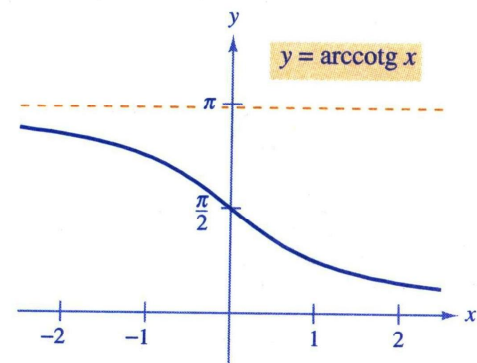
Domínio: $(-\infty, \infty)$
Imagem: $(-\pi/2, \pi/2)$



Domínio: $(-\infty, -1] \cup [1, \infty)$
Imagem: $[-\pi/2, 0) \cup (0, \pi/2]$



Domínio: $(-\infty, -1] \cup [1, \infty)$
Imagem: $[0, \pi/2) \cup (\pi/2, \pi]$



Domínio: $(-\infty, \infty)$
Imagem: $(0, \pi)$

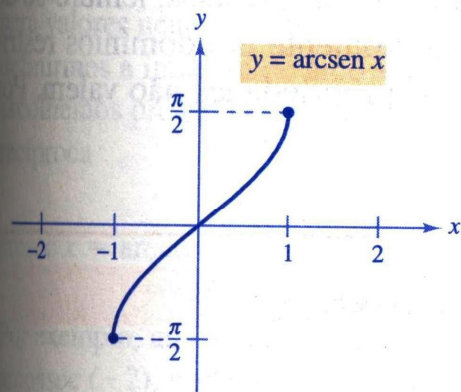
Figura 5.29

Definições das Funções Trigonométricas Inversas

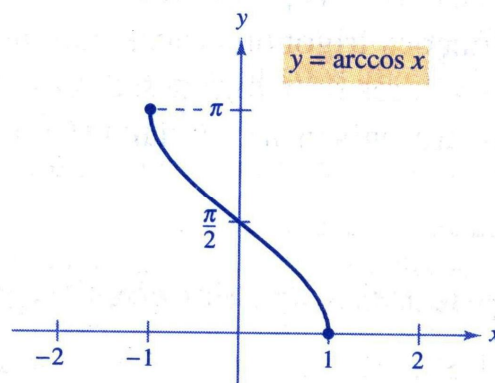
<u>Função</u>	<u>Domínio</u>	<u>Imagem</u>
$y = \arcsen x \Leftrightarrow \sen y = x$	$-1 \leq x \leq 1$	$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$
$y = \arccos x \Leftrightarrow \cos y = x$	$-1 \leq x \leq 1$	$0 \leq y \leq \pi$

Definições das Funções Trigonométricas Inversas (Continuação)

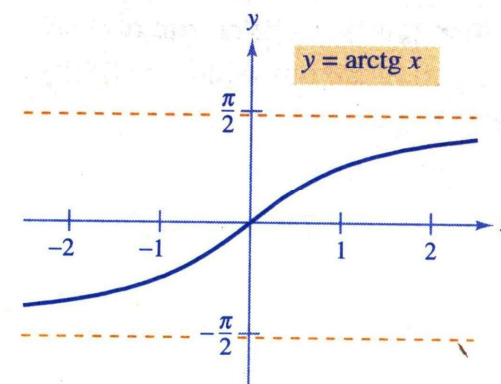
<u>Função</u>	<u>Domínio</u>	<u>Imagem</u>
$y = \arctg x \Leftrightarrow tg y = x$	$-\infty < x < \infty$	$-\frac{\pi}{2} < y < \frac{\pi}{2}$
$y = \operatorname{arccotg} x \Leftrightarrow \operatorname{cotg} y = x$	$-\infty < x < \infty$	$0 < y < \pi$
$y = \operatorname{arcsec} x \Leftrightarrow \sec y = x$	$ x \geq 1$	$0 \leq y \leq \pi, y \neq \frac{\pi}{2}$
$y = \operatorname{arccossec} x \Leftrightarrow \operatorname{cossec} y = x$	$ x \geq 1$	$-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}, y \neq 0$



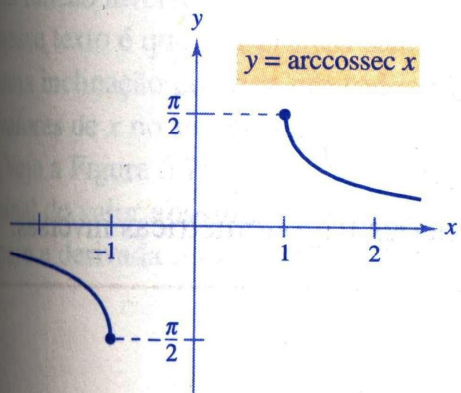
Domínio: $[-1, 1]$
Imagem: $[-\pi/2, \pi/2]$



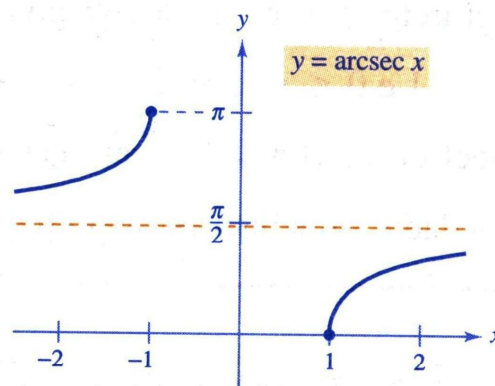
Domínio: $[-1, 1]$
Imagem: $[0, \pi]$



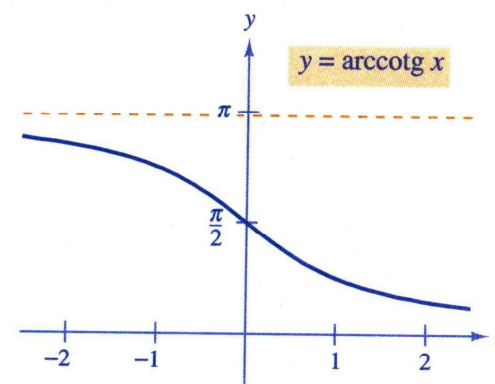
Domínio: $(-\infty, \infty)$
Imagem: $(-\pi/2, \pi/2)$



Domínio: $(-\infty, -1] \cup [1, \infty)$
Imagem: $[-\pi/2, 0) \cup (0, \pi/2]$



Domínio: $(-\infty, -1] \cup [1, \infty)$
Imagem: $[0, \pi/2) \cup (\pi/2, \pi]$



Domínio: $(-\infty, \infty)$
Imagem: $(0, \pi)$

Figura 5.29