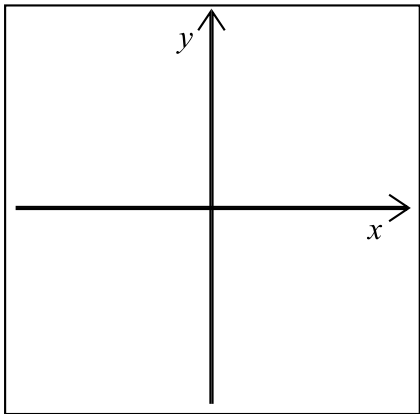
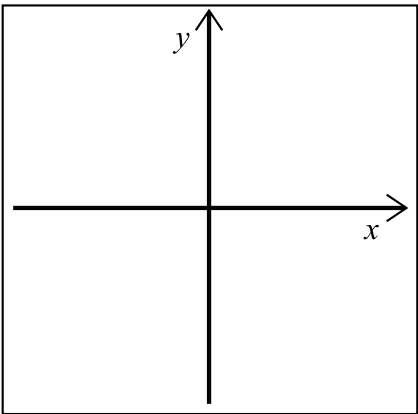


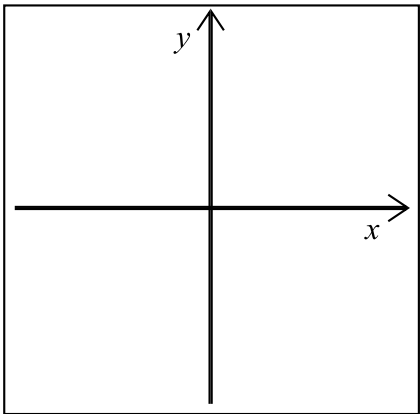
# Funções Trigonométricas



$y = \text{sen} x, |x| \leq \frac{\pi}{2}$

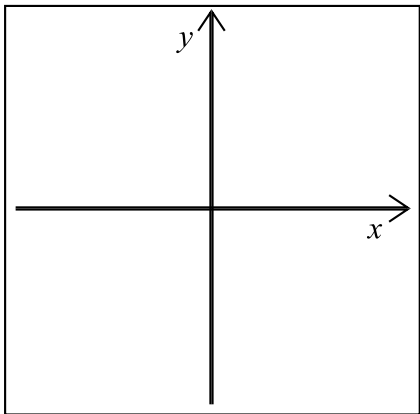
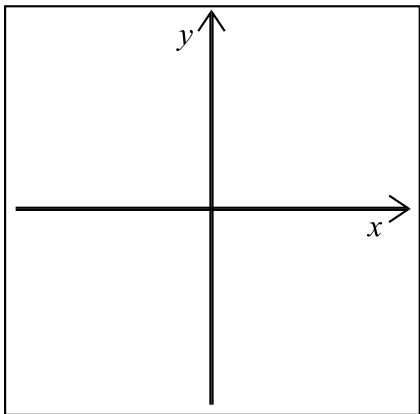
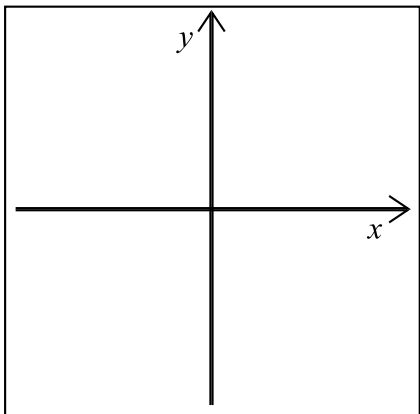


$y = \text{tg} x, |x| < \frac{\pi}{2}$

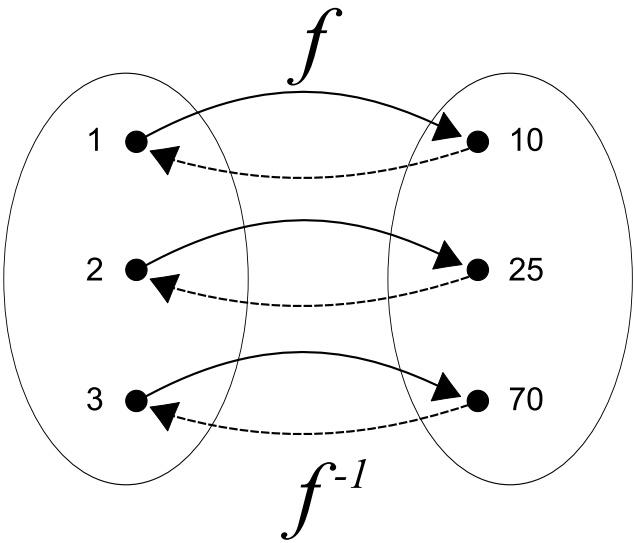


$y = \text{sec} x, 0 < x < \pi, x \neq \frac{\pi}{2}$

Faça também os gráficos das outras três funções trigonométricas



## Funções Inversas



$$f^{-1}(f(x)) = x$$
$$f(f^{-1}(x)) = x$$

Se x pertencer ao domínio de inversão da função.

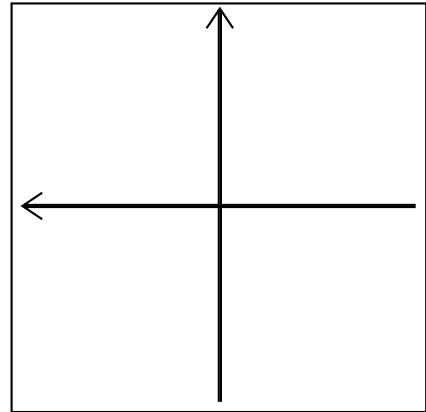
Responda:

$f^{-1}(f(1)) =$

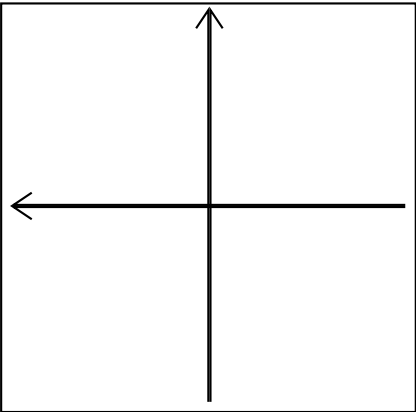
$f(f^{-1}(10)) =$

$f^{-1}(f(10)) =$

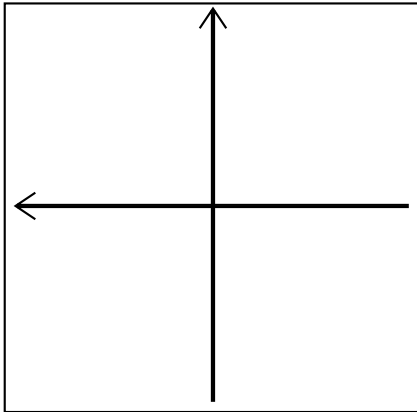
# Funções Trigonométricas Inversas



$$y = \text{arcsec } x$$



$$y = \text{arctg } x$$



$$y = \text{arcsen } x$$

Dedução das derivadas:

Faça também os gráficos das outras três funções trigonométricas inversas em casa

Propriedades