

## Exercise 74

Graph the given functions on the same screen. How are these graphs related?

$$y = \tan x, \quad -\pi/2 \leq x \leq \pi/2; \quad y = \tan^{-1} x; \quad y = x$$

### Solution

$\tan^{-1} x$  is the inverse function of  $\tan x$ . It's the reflection of  $\tan x$  over the line  $y = x$ .

