

Exercise 209

For the following exercises, evaluate the functions. Give the exact value.

$$\cot^{-1}(1)$$

Solution

The inverse cotangent gives an angle between 0 and π .

$$x = \cot^{-1}(1)$$

$$\cot x = 1$$

$$\frac{1}{\tan x} = 1$$

$$\tan x = 1$$

The value of x that satisfies this equation is $\pi/4$.