## Exercise 210

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

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

## Solution

The inverse sine gives an angle between $-\pi / 2$ and $\pi / 2$.

$$
\begin{gathered}
x=\sin ^{-1}(-1) \\
\sin x=-1
\end{gathered}
$$

The value of $x$ that satisfies this equation is $3 \pi / 2$.

