Exercise 17

For the following exercises, determine whether the functions are even, odd, or neither.

$$f(x) = \frac{1}{x}$$

Solution

Plug $-x$ into the function.

$$\begin{aligned}
f(-x) &= \frac{1}{-x} \\
&= -\frac{1}{x} \\
&= -f(x)
\end{aligned}$$

Since $f(-x) = -f(x)$, the function is odd.