## Exercise 2

In Exercises 1-6, find the domain and range of each function.

$$
f(x)=1-\sqrt{x}
$$

## Solution

Only values of $x$ that are zero or positive can be plugged into a square root function: $x \geq 0$.

$$
\text { Domain: } \quad\{x \mid x \geq 0\}
$$

The $\sqrt{x}$ term can be either zero or higher than that, so the lowest value of $f$ is $-\infty$ and the highest value of $f$ is 1 .

$$
\text { Range: } \quad\{y \mid-\infty \leq y \leq 1\}
$$



