1. Find the domain of \( f(x) = \sqrt{x - 1} \) and put your answer in interval notation.

**Solution:** Due to the square root we must have \( x - 1 \geq 0 \), that is \( x \geq 1 \). So the domain is \( x \geq 1 \), which is \([1, \infty)\) in interval notation.

2. Using the graph of the following function estimate the domain and range of the function. Put your answer in interval notation.

![Graph of a function](image)

**Solution:** For the domain, smash the graph to the \( x \)-axis and note that it covers the interval \([-2, 1]\). For the range, smash the graph to the \( y \)-axis and note that it covers the interval \([1, 6]\). So the domain is \([-2, 1]\) and the range is \([1, 6]\).