## Exercise 2

If $f$ is continuous on $(-\infty, \infty)$, what can you say about its graph?

## Solution

If $f$ is continuous on $(-\infty, \infty)$, then there are no removable, infinite, or jump discontinuities in the graph. In other words, there are no holes or vertical asymptotes, and the left-hand and right-hand limits are identical for any finite value of $x$.

