

Limits Values and Rates: Explore and Explain



Name: _____ Date: _____

Explore the material. Talk through your reasoning with suitable support.

Approach and value

For x not equal to 1, $f(x) = (x^2 - 1)/(x - 1)$ equals $x + 1$. As x approaches 1, $f(x)$ approaches 2, even if $f(1)$ is undefined.

1. Simplify $f(x)$ and state the excluded x value.

2. Find the limit of $f(x)$ as x approaches 1.
