

Limits Values and Rates: Apply and Create



Name: _____ Date: _____

Use what you learned to explain, construct or apply an idea.

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. Find the average rate of change of x^2 from $x = 2$ to $x = 3$.

2. Explain why an undefined function value does not always mean the limit is absent.
