Exercise 2

For the following exercises, points $P(1, 2)$ and $Q(x, y)$ are on the graph of the function $f(x) = x^2 + 1$.

Use the values in the right column of the table in the preceding exercise to guess the value of the slope of the line tangent to f at $x = 1$.

Solution

The slope of the tangent line to f at $x = 1$ is 2.