

Name : _____

Score : _____

Teacher : _____

Date : _____

Evaluate Slope at a Point

Find the slope of the function at the given value. Round to the nearest ten-thousandth.

1) $y = 3^{(x+5)}$, at $x = -4$

2) $y = \frac{x+2}{x^2+3x+2}$, at $x = 0$

3) $y = \cos(x-1)$, at $x = -2\pi$

4) $y = \sin(x^2 + 2x - 15)$, at $x = \frac{-3\pi}{4}$

5) $y = \sin(x-5)$, at $x = \frac{5\pi}{4}$

6) $y = x^3 - 7x - 6$, at $x = -1$

7) $y = x + 3$, at $x = -2$

8) $y = \frac{x^2-1}{x+1}$, at $x = -6$

9) $y = e^{(x)}$, at $x = -6$

10) $y = \frac{x-2}{x^2-x-6}$, at $x = 6$



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Evaluate Slope at a Point

Find the slope of the function at the given value. Round to the nearest ten-thousandth.

1) $y = 3^{(x+5)}$, at $x = -4$

slope = 3.2958

2) $y = \frac{x+2}{x^2+3x+2}$, at $x = 0$

slope = -1

3) $y = \cos(x-1)$, at $x = -2\pi$

slope = 0.8415

4) $y = \sin(x^2 + 2x - 15)$, at $x = \frac{-3\pi}{4}$

slope = 0.0639

5) $y = \sin(x-5)$, at $x = \frac{5\pi}{4}$

slope = 0.4775

6) $y = x^3 - 7x - 6$, at $x = -1$

slope = -4

7) $y = x + 3$, at $x = -2$

slope = 1

8) $y = \frac{x^2-1}{x+1}$, at $x = -6$

slope = 1

9) $y = e^{(x)}$, at $x = -6$

slope = 0.0025

10) $y = \frac{x-2}{x^2-x-6}$, at $x = 6$

slope = -0.0347

