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Rate of Change and Slope Worksheets

Find the average rate of change for the following functions:

1. $f(x) = -\ln(x+1)$ in $[0, 4]$
2. $y = 2x + 1$ in $(1, 3)$
3. $y = 3x^2 + 2$
- 4) The slope of the line that passes through the points $(3, 6)$ and $(-2, 6)$ is ____.
- 5) The slope of the line that passes through the points $(2, 10)$ and $(3, 5)$ is ____.
- 6) The slope of the line that passes through the points $(-2, -4)$ and $(3, 2)$ is ____.
- 7) If (x_1, y_1) and (x_2, y_2) are two points on a straight line then its slope is, $m = \underline{\hspace{2cm}}$.
- 8) The slope of the line that passes through the points $(-2, 7)$ and $(-2, -3)$ is ____.
- 9) If the slope of the line passing through the points $(1, k)$ and $(7, -9)$ is -1 , find k .
- 10) Are the following points collinear? Justify your answer. Hint: Check whether the slope of $AB =$ slope of AC .
 $A(-10, 0)$, $B(0, 5)$, and $C(-4, 3)$.

When you learn math
in an interesting way,
you never forget.



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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