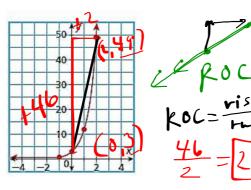
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Algebra 1 Unit 7: Exponential Functions

Notes

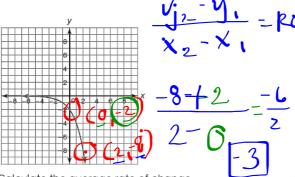
Average Rate of Change from a Graph

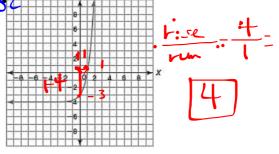
Average Rate of Change: Rate of change or slope for a given interval on a graph. The given interval is written using the inequality notation $a \le x \le b$, where a and b represent the initial and final x-value of the interval.



Calculate the average rate of change for the interval $0 \le x \le 2$

Calculate the α erage rate of change for the interval -1 \leq $1 \leq$ 2





Calculate the average rate of change for the interval $0 \le x \le 2$

Calculate the overage rate of change for the interval 0 \(\times x \(\times 1 \)

Average Rate of Change from an Equation

If you are given an equation of a function and asked to calculate the average rate of change for that function over a given interval, you will substitute the initial x-value and the final x-value into the function to create two sets of ordered pairs. Then using the ordered pairs, substitute into the slope formula.

