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15 January 2019

1 Calculating slopes from tables

Find the slope of the function from the ratio of the line differences.

1.

x	$f(x)$
-2	-5
-1	-1
0	3
1	7
2	11

Change in $y =$ _____

Change in $x =$ _____

Slope = _____

2.

x	$f(x)$
-4	7
-2	1
-1	-2
2	-11
4	-17

Change in $y =$ _____

Change in $x =$ _____

Slope = _____

Find the slope of the function. If the rate of change is not constant, write, "Non-linear. The rate of change is not constant."

1.

Δx	x	$f(x)$	Δy
	-5	-3	
	-1	-1	
	0	1	
	2	3	
	5	5	

Slope = _____

2.

Δx	x	$f(x)$	Δy
	-3	0	
	-1	2	
	0	3	
	2	5	
	5	8	

Slope = _____

2 Solving quadratics

1. Solve $x^2 + 7x + 12 = 0$ by factoring. Then check with the quadratic formula.

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2. Solve $2x^2 + 9x + 7 = 0$ with the quadratic formula.

3. Solve $9x^2 + 8x - 1 = 0$ with the quadratic formula.

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Algebra Review

Solve for x.

1. $2x + 9 = 5x - 6$
2. $4(x - 3) = 6x + 18$
3. $5 + 2(x + 3) = -7$
4. $\frac{x}{8} = 5$
5. $\frac{x}{3} + 17 = 24$
6. $\frac{24}{x} + 9 = 15$
7. $\frac{1}{2}(x + 5) = 7$
8. $\frac{3}{x}(2x + 8) = 18$

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For early finishers:

1. $\frac{2}{3}(5x+8)=12$

2. $5-\frac{2}{3}(7x+4)=-7$

3. $3-\frac{2}{x}(2x+18)=17$

4. $4+\frac{4}{x}(-6x-8)=12$