

Name	Date



Skills Maintenance

Solving Equations With Variables

Activity 1

Solve the equations by substituting the value for the variable.

- **1**. Solve y = 2x + 3 for x = -1.
- **2**. Solve y = 3x 1 for x = -2.
- **3**. Solve y = 2x + 5 for x = 1.
- **4**. Solve $y = \frac{1}{2}x + 10$ for x = 8.

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$\overset{\text{\%} \div}{\underset{<}{=}} \frac{\text{Apply Skills}}{\text{Slope Intercept Form: } y = mx + b }$

Activity 1

Fill in the x/y table and make a graph for each of the functions written in slope-intercept form.

1. Function: y = 2x + 2



Draw the graph. What is the slope? _____ What is the *y*-intercept? _____



2. Function: y = x - 2



Draw the graph. What is the slope? _____ What is the *y*-intercept? ____





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3. Function: $y = \frac{1}{2}x + -1$

X	y

Draw the graph. What is the slope? _____ What is the *y*-intercept? _____

	<i>Y</i> 7 6 5 4 3 2 1
 -7 - 6 - 5 - 4 - 3 - 2 - 1 -2 -3 -4 -5 -6 -7 	-1 1 2 3 4 5 6 7 X -2 -3 -4 -5 -6 -7

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Problem-Solving Activity

Graphing Linear Equations

You learned about three kinds of slopes:

- Positive slope
- Negative slope
- Zero slope

Match the functions with the graphs in each problem. Think about the direction of the line and rise-over-run when you figure out which function goes with what graph.

Functions:

y = -2x + 3 y = 4x - 1 y = 0x + 3 y = -4x + 1 y = 0x - 1

- 1. Which function goes with this graph?
- 2. Which function goes with this graph?



Explain the feature of the graph that helped you make this choice.



Explain the feature of the graph that helped you make this choice.

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3. Which function goes with this graph?



Explain the feature of the graph that helped you make this choice.

4. Which function goes with this graph?



Explain the feature of the graph that helped you make this choice.

5. Which function goes with this graph?

Explain the feature of the graph that helped you make this choice.

