

**Evaluating Functions Practice**

Date \_\_\_\_\_ Period \_\_\_\_\_

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**Evaluate each function.**

1)  $k(x) = -3x^2 - 3$ ; Find  $k(-2)$

2)  $g(x) = x - 2$ ; Find  $g(-3)$

3)  $k(a) = a + 4$ ; Find  $k(0)$

4)  $f(t) = t^2 + 2$ ; Find  $f(-6)$

5)  $h(t) = t^3 + 5t^2$ ; Find  $h(2)$

6)  $k(n) = n + 2$ ; Find  $k(-6)$

7)  $g(x) = 3x$ ; Find  $g(-5)$

8)  $f(a) = 3a$ ; Find  $f(7)$

9)  $w(t) = t - 5$ ; Find  $w(-4)$

10)  $p(x) = 2x - 2$ ; Find  $p(-5)$

11)  $h(x) = 3x^2 + 2 - 2x$ ; Find  $h(-2)$

12)  $h(t) = t + 1$ ; Find  $h(7)$

13)  $w(x) = x^2 - 4$ ; Find  $w(10)$

14)  $p(x) = -x - 2$ ; Find  $p(-6)$

15)  $h(n) = n + 4$ ; Find  $h(-10)$

## Answers to Evaluating Functions Practice (ID: 1)

1) -15  
5) 28  
9) -9  
13) 96

2) -5  
6) -4  
10) -12  
14) 4

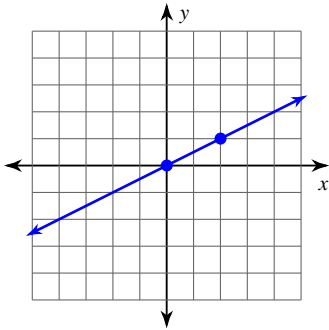
3) 4  
7) -15  
11) 18  
15) -6

4) 38  
8) 21  
12) 8

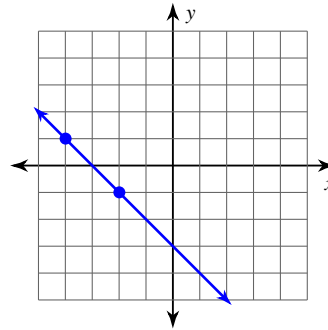
# Finding Slope From a Graph

**Find the slope of each line.**

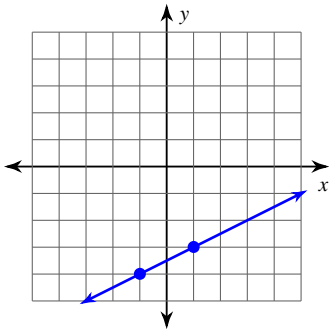
1)



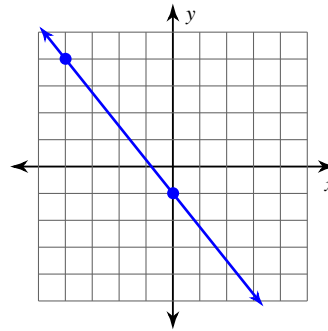
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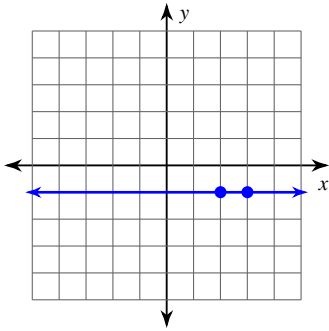
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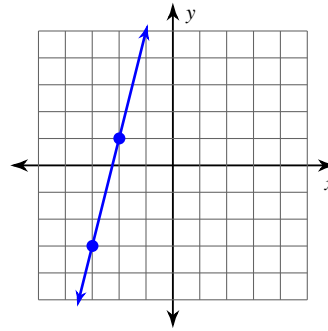
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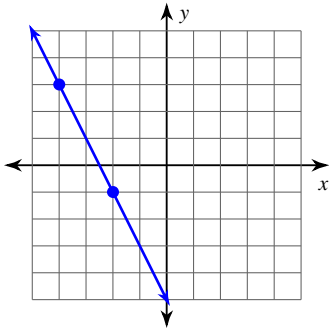
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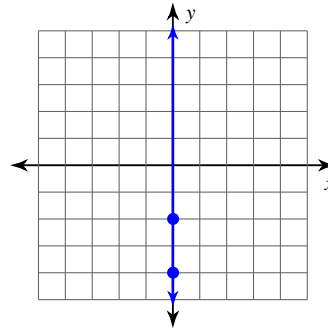
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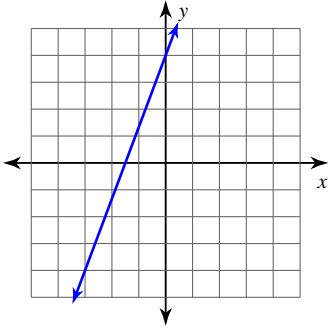
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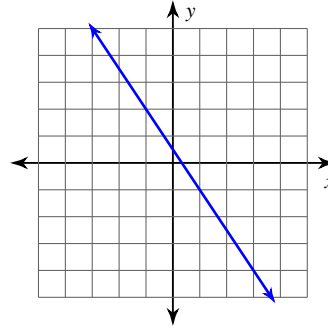
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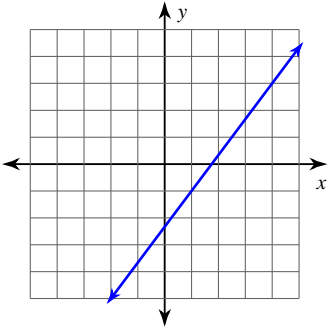
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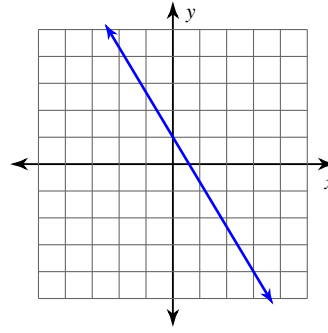
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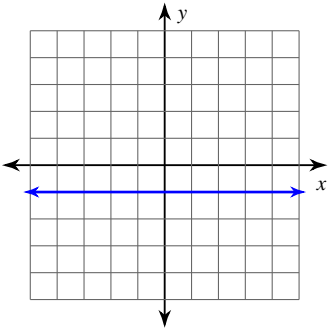
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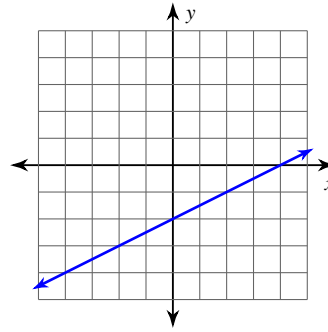
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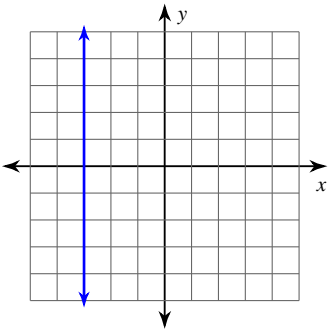
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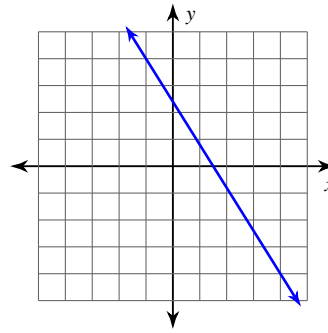
14)



15)



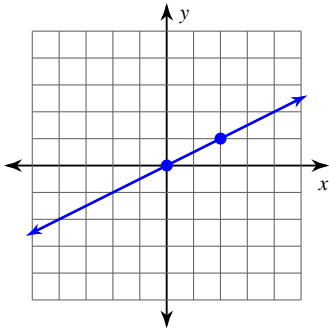
16)



# Finding Slope From a Graph

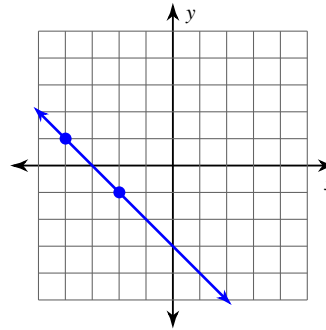
Find the slope of each line.

1)



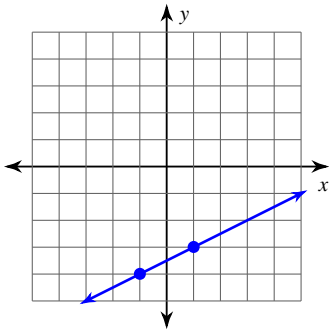
$\frac{1}{2}$

2)



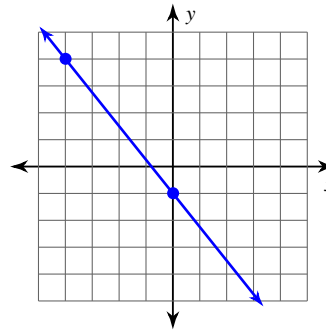
-1

3)



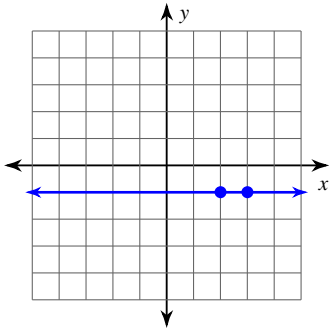
$\frac{1}{2}$

4)



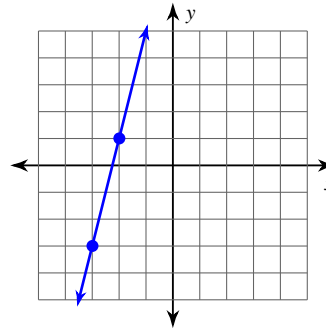
$-\frac{5}{4}$

5)



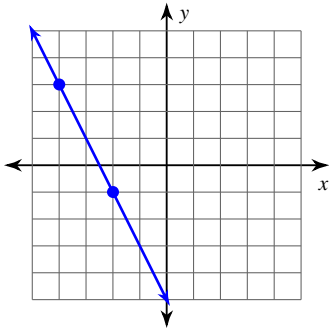
0

6)



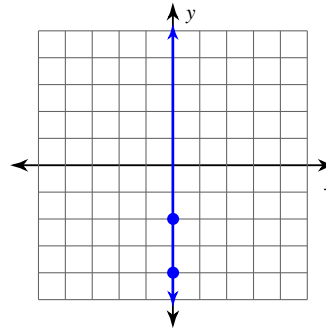
4

7)



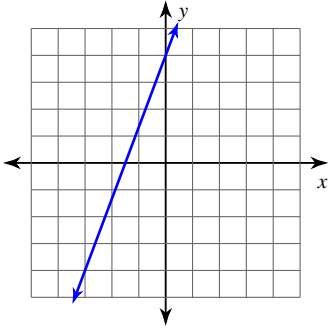
-2

8)



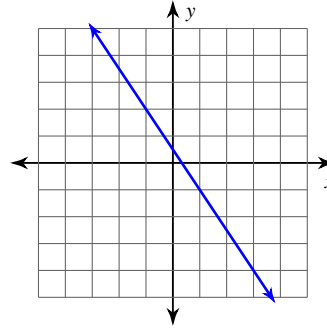
Undefined

9)



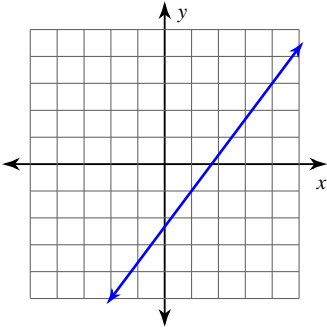
$$\frac{8}{3}$$

10)



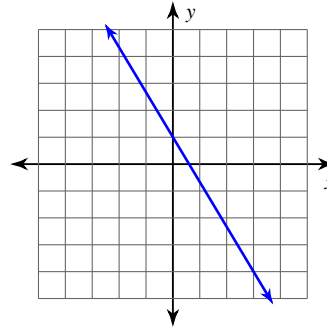
$$-\frac{3}{2}$$

11)



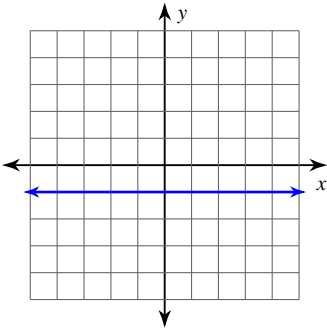
$$\frac{4}{3}$$

12)



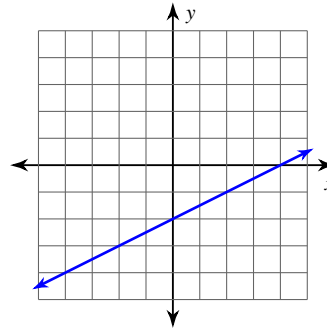
$$-\frac{5}{3}$$

13)



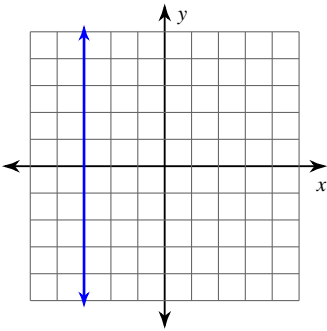
$$0$$

14)



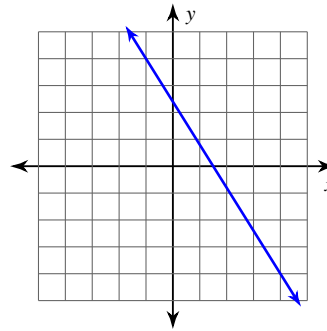
$$\frac{1}{2}$$

15)



Undefined

16)



$$-\frac{8}{5}$$

# Finding Slope from Tables

## Homework

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

Determine the slope of the line represented by the table of values. Describe the graphs of the line as increasing, decreasing, horizontal, or vertical. Copy one of these tables on the back of this page and write a situation that describes the data.

1.

x	y
-2	3
-1	5
0	7
1	9
2	11

m =

Graph Description

2.

x	y
-3	5
-2	2
-1	-1
0	-4
1	-7

m =

Graph Description

3.

x	y
1	-17
2	-13
3	-9
4	-5
5	-1

m =

Graph Description

4.

x	y
-6	-4
-5	-9
-4	-14
-3	-19
-2	-24

m =

Graph Description

5.

x	y
0	3
1	5.5
2	8
3	10.5
4	13

m =

Graph Description

6.

x	y
-2	5
-1	4.75
0	4.5
1	4.25
2	4

m =

Graph Description

7.

x	y
-2	$\frac{2}{5}$
-1	$\frac{4}{5}$
0	$\frac{6}{5}$
1	$\frac{8}{5}$

m =

Graph Description

8.

x	y
-1	1
1	2
3	3
5	4
7	5

m =

Graph Description

9.

x	y
-5	10
-2	5
1	0
4	-5
7	-10

m =

Graph Description

10.

x	y
-5	10
-3	6
-1	2
1	-2
3	-6

m =

Graph Description

11.

x	y
-4	6
-2	6
0	6
2	6
4	6

m =

Graph Description

12.

x	y
5	2
5	4
5	6
5	8
5	10

m =

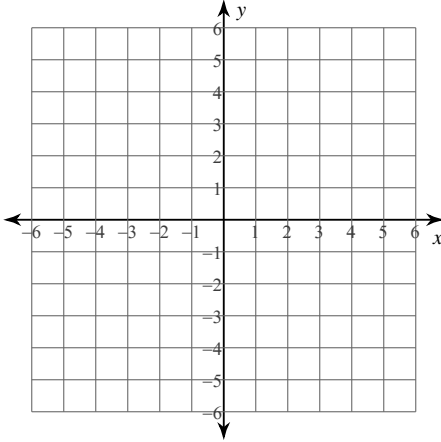
Graph Description



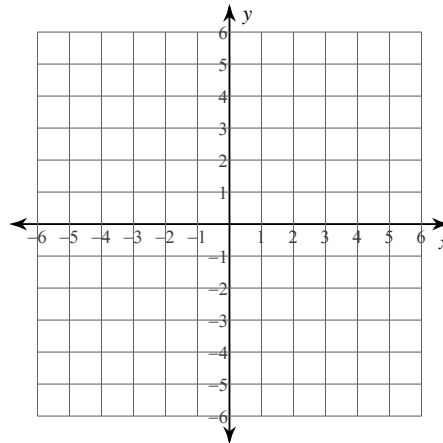
## Graphing Lines

Sketch the graph of each line.

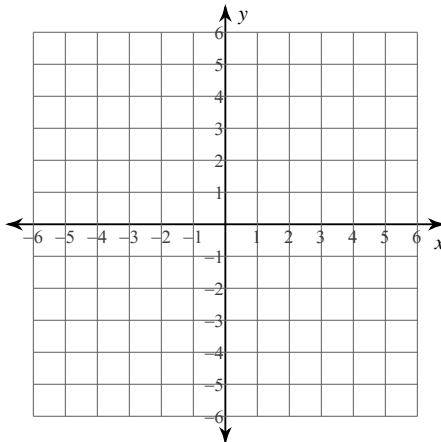
1)  $y = \frac{7}{2}x - 2$



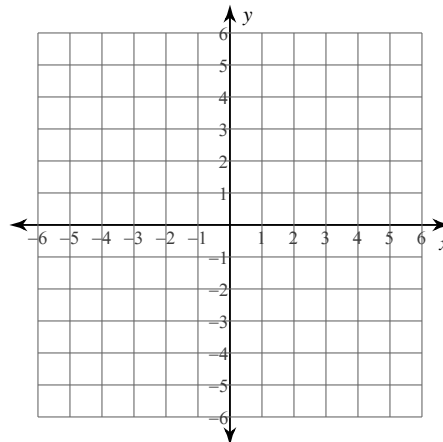
2)  $y = -6x + 3$



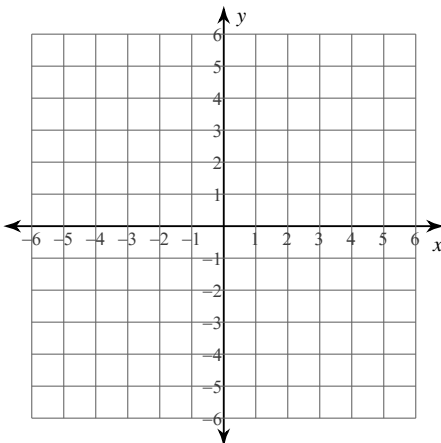
3)  $y = -5$



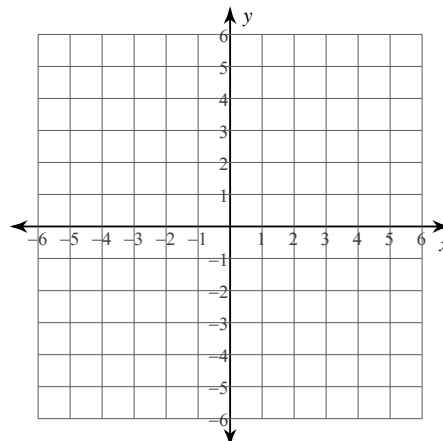
4)  $y = \frac{6}{5}x + 1$



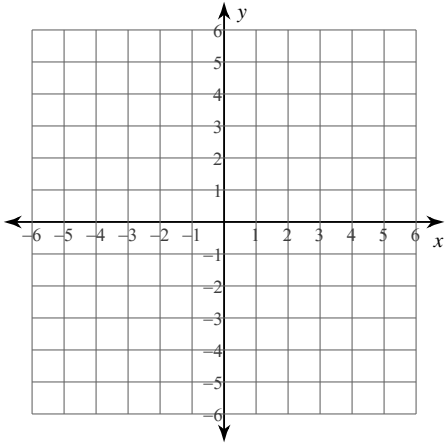
5)  $y = \frac{1}{4}x + 2$



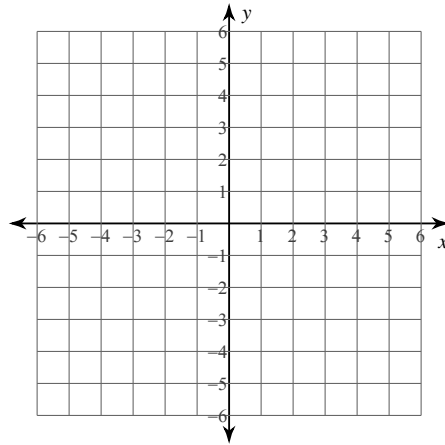
6)  $x = 5$



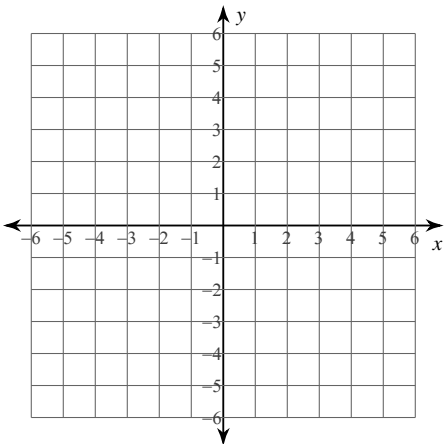
7)  $y = \frac{5}{3}x$



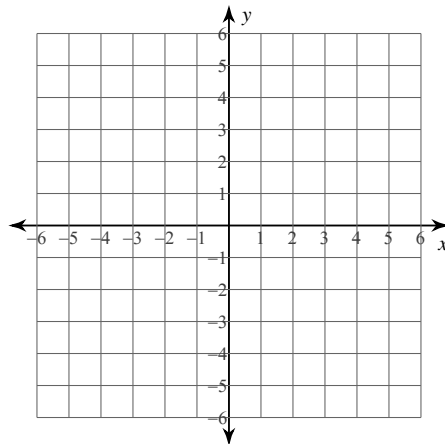
8)  $x = 0$



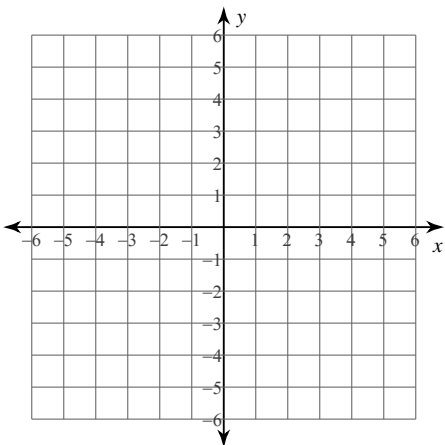
9)  $y = -\frac{1}{3}x + 3$



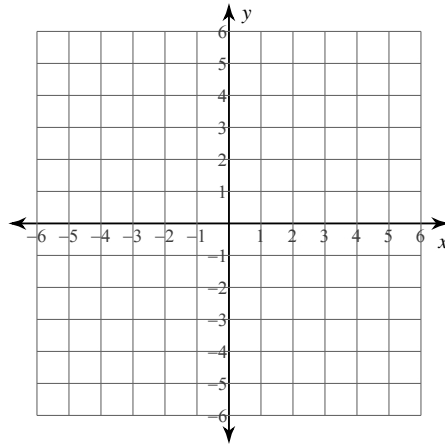
10)  $y = \frac{1}{5}x - 4$



11)  $y = \frac{1}{2}x - 2$



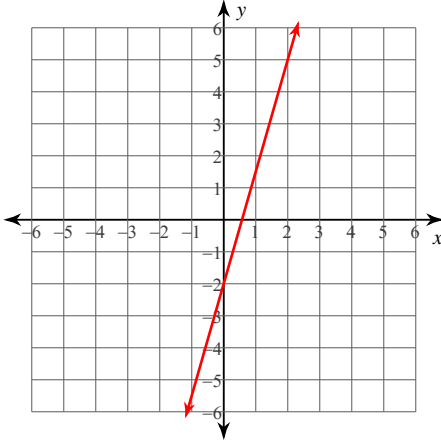
12)  $y = 2x + 5$



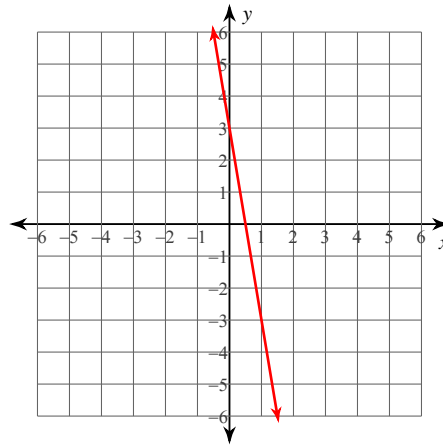
# Graphing Lines

Sketch the graph of each line.

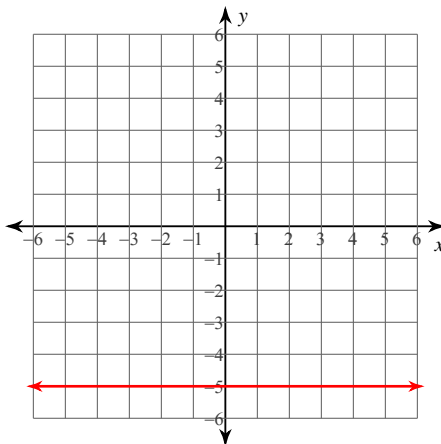
1)  $y = \frac{7}{2}x - 2$



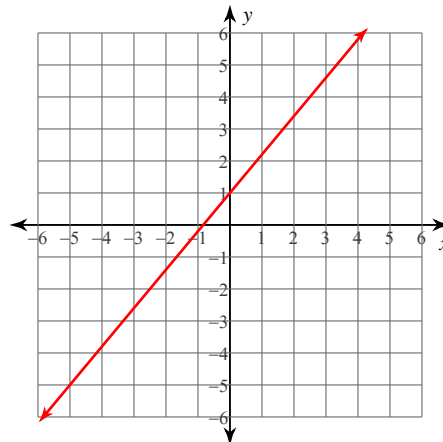
2)  $y = -6x + 3$



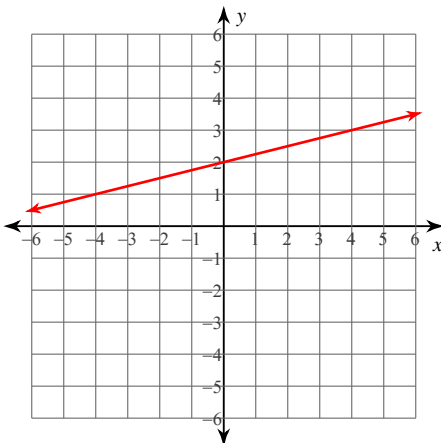
3)  $y = -5$



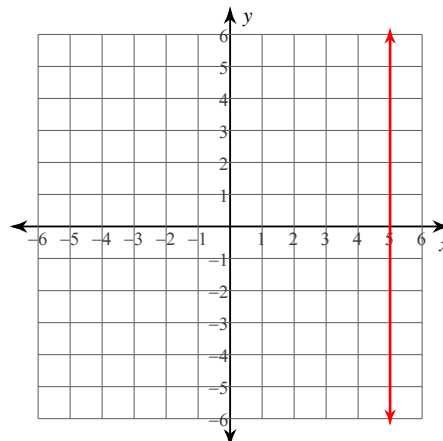
4)  $y = \frac{6}{5}x + 1$



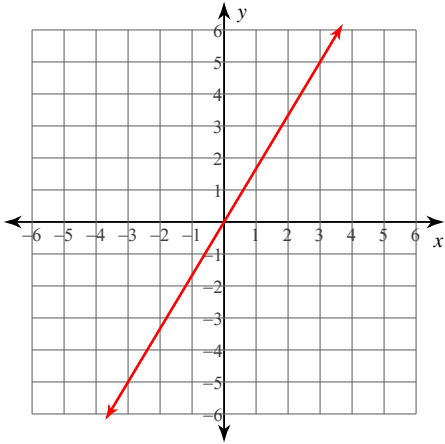
5)  $y = \frac{1}{4}x + 2$



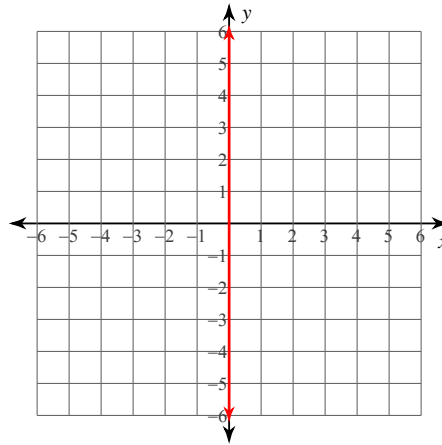
6)  $x = 5$



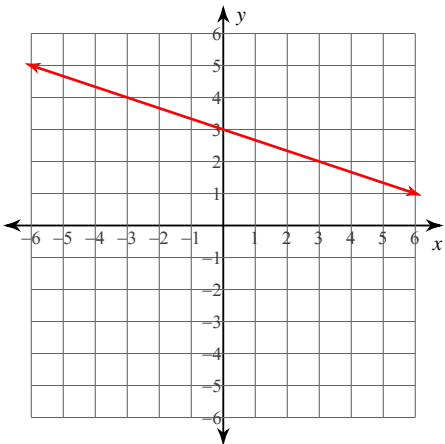
7)  $y = \frac{5}{3}x$



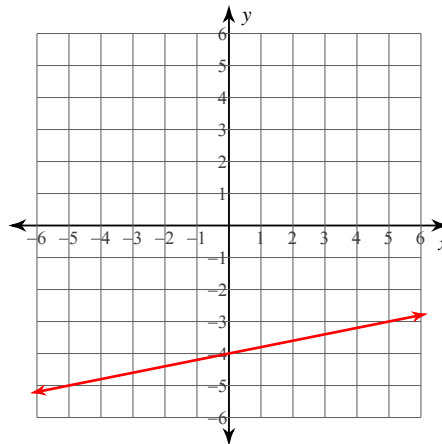
8)  $x = 0$



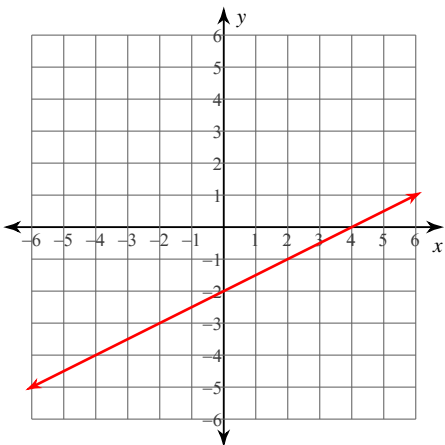
9)  $y = -\frac{1}{3}x + 3$



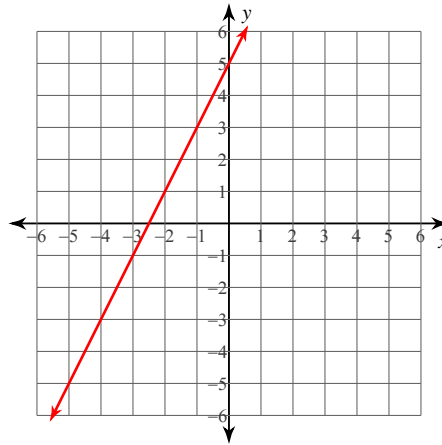
10)  $y = \frac{1}{5}x - 4$



11)  $y = \frac{1}{2}x - 2$



12)  $y = 2x + 5$



**Practice #1**

Write a linear equation in slope-intercept form for the situation described below.

James and Shani share a veterinary practice. They each make farm visits two days a week. They take cellular phones on these trips to keep in touch with the office. James makes his farm visits on weekdays. His cellular phone rate is \$14.95 a month plus \$0.50 a minute. Shani makes her visits on Saturday and Sunday and is charged a weekend rate of \$34 a month.

- a. Write an equation for each billing plan.
- b. Is it possible for James's cellular phone bill to be more than Shani's? Explain how you know this.

**Practice #2**

The following tables represent the costs from two skating companies: Rollaway Skates and Wheelie's Skates and Stuff.

Rollaway Skates		Wheelie's Skates and Stuff	
Number of People	Cost	Number of People	Cost
0	\$0	0	\$100
1	\$5	1	\$103
2	\$10	2	\$106
3	\$15	3	\$109
4	\$20	4	\$112
5	\$25	5	\$115
6	\$30	6	\$118
7	\$35	7	\$121
8	\$40	8	\$124

a. For each company, explain why the relationship between the number of people and cost is linear?

b. For each company write an equation for the cost and number of people in slope-intercept form.

- C. Use Desmos.com to create a graph of the two equations. Create a sketch of the graph, showing where the lines cross.

Describe when Rollaway Skates is cheaper and when Wheelie's is cheaper.

Sketch of the Graph