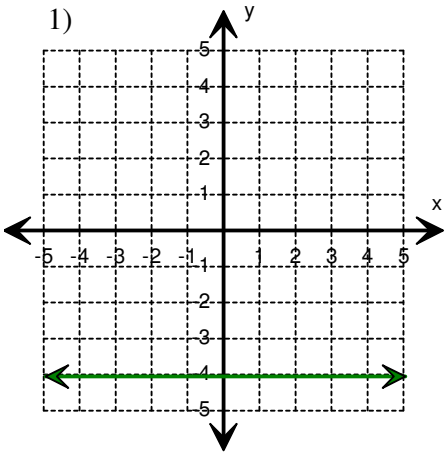
Name: _____ **Score:**

Slope Types

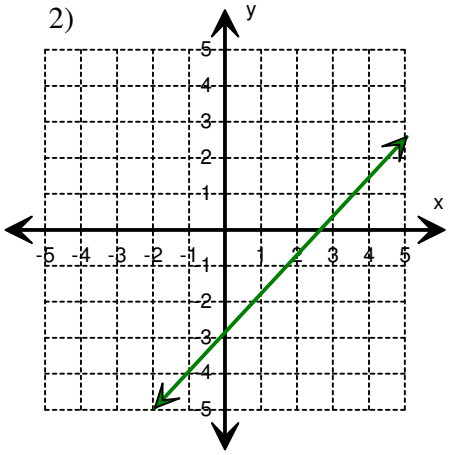
Write whether the slope of the line is positive, negative, zero or undefined.

1)



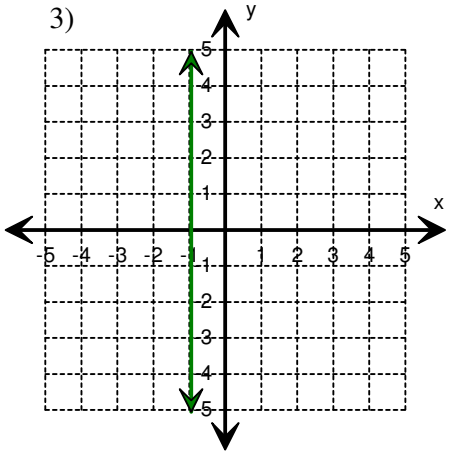
_____

2)



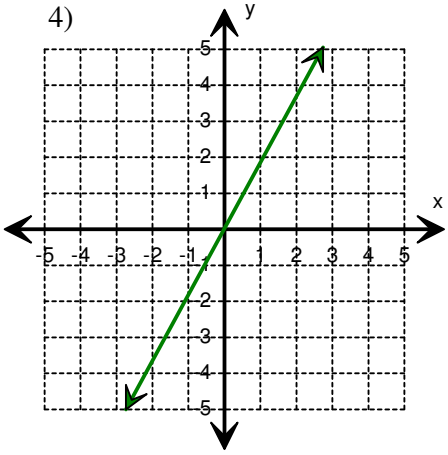
_____

3)



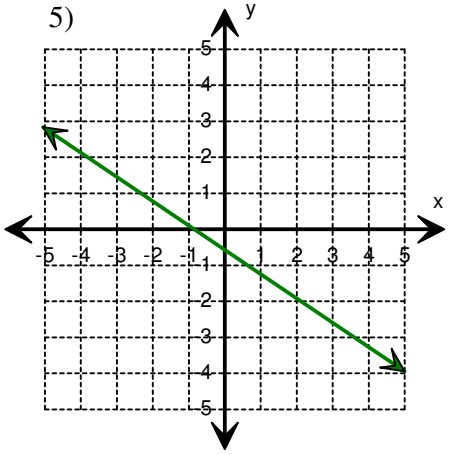
_____

4)



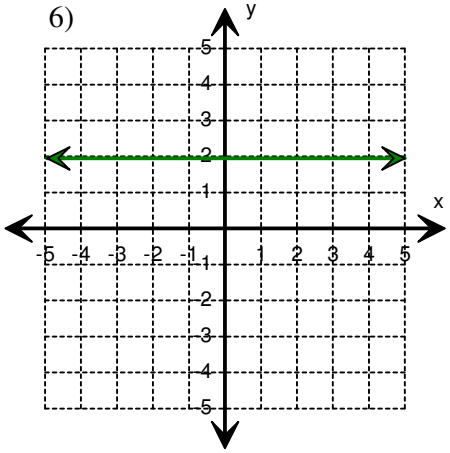
_____

5)



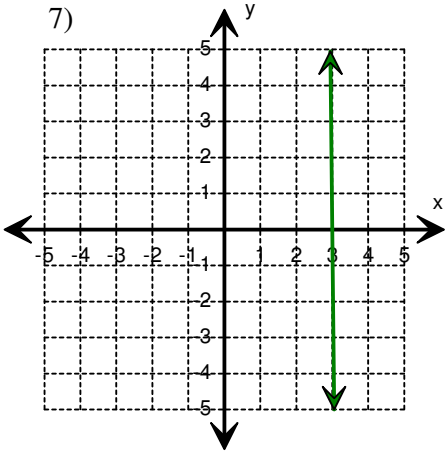
_____

6)



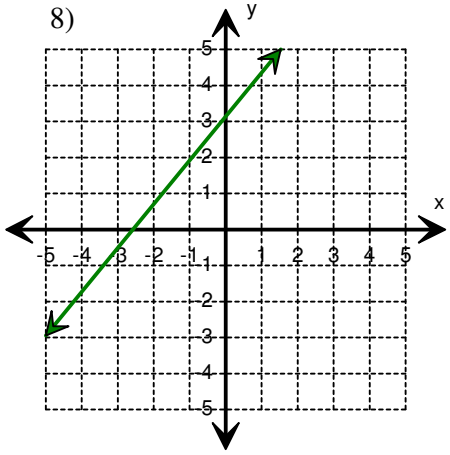
_____

7)



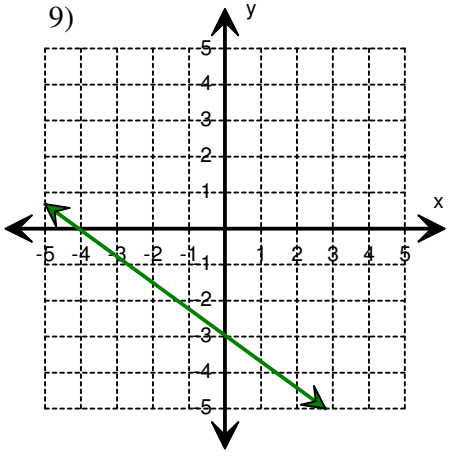
_____

8)



_____

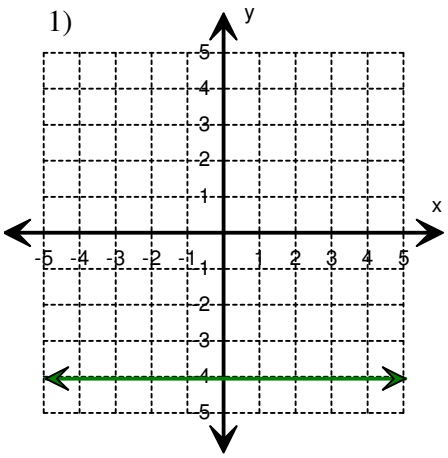
9)



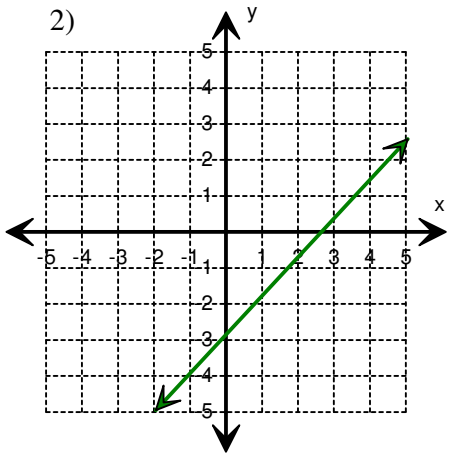
_____

Name: _____ **Score:**

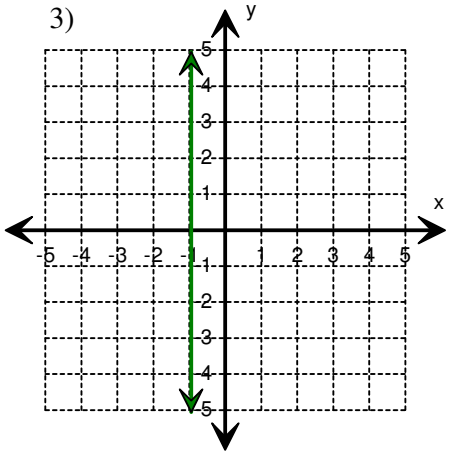
Answers:

1) 

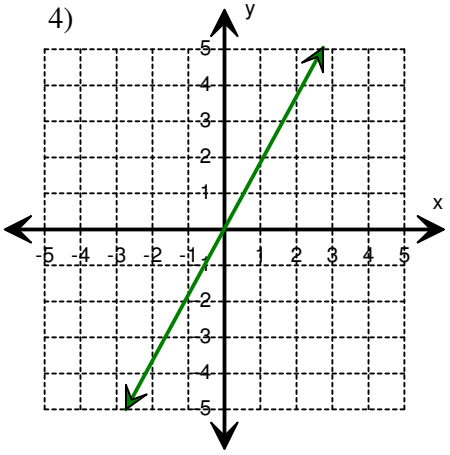
Zero slope

2) 

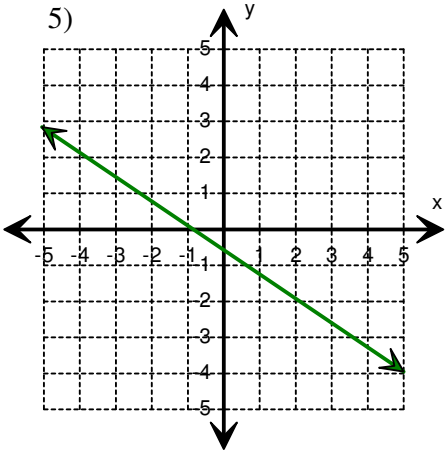
Positive slope

3) 

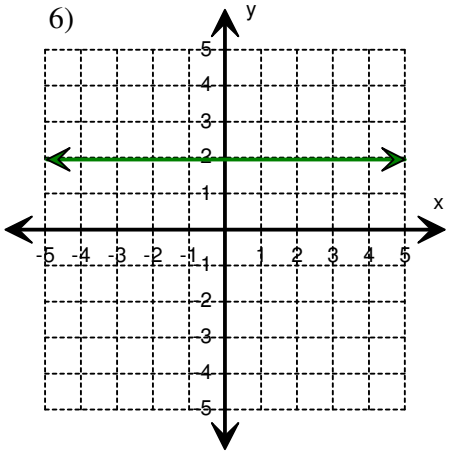
Undefined

4) 

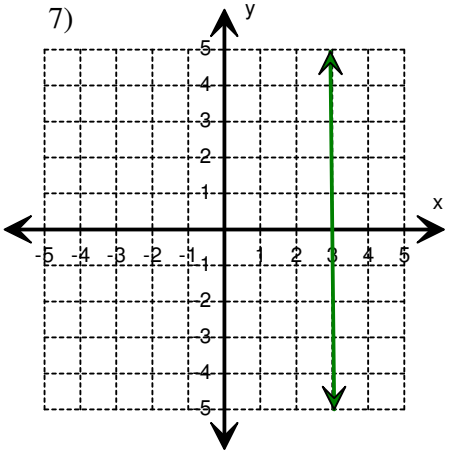
Positive slope

5) 

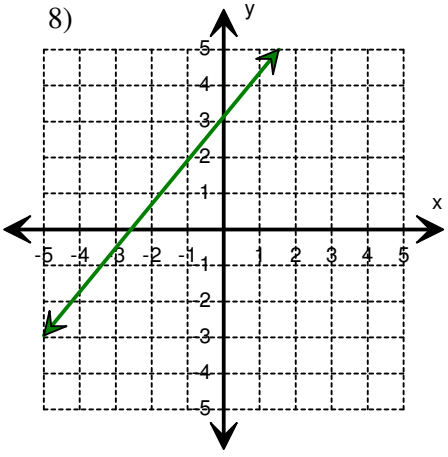
Negative slope

6) 

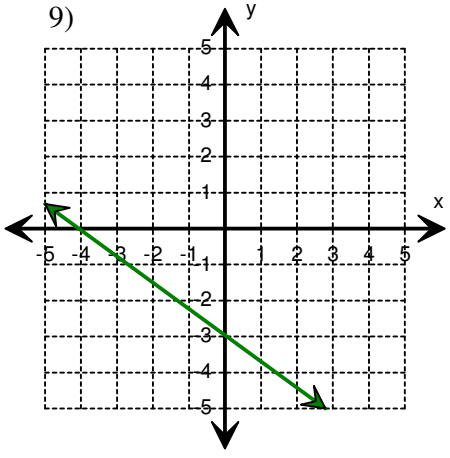
Zero slope

7) 

Undefined

8) 

Positive slope

9) 

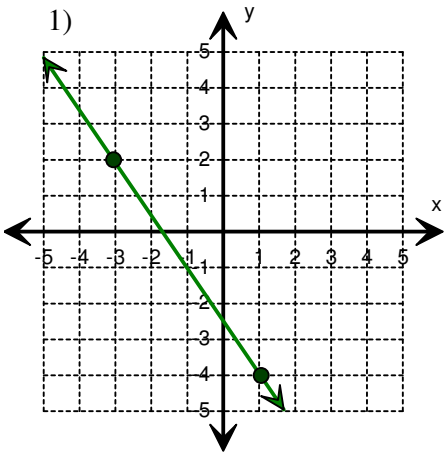
Negative slope

Name: _____ **Score:**

Finding the Slope

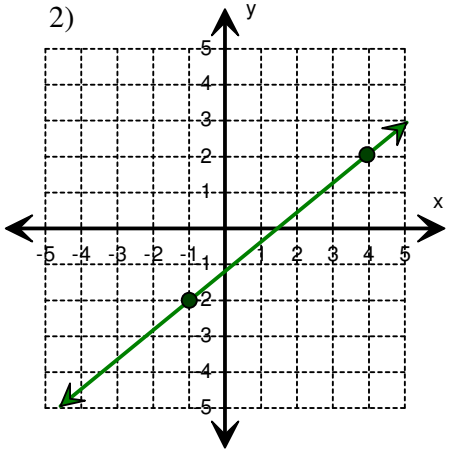
Count the rise and run; and find the slope of each line.

1)



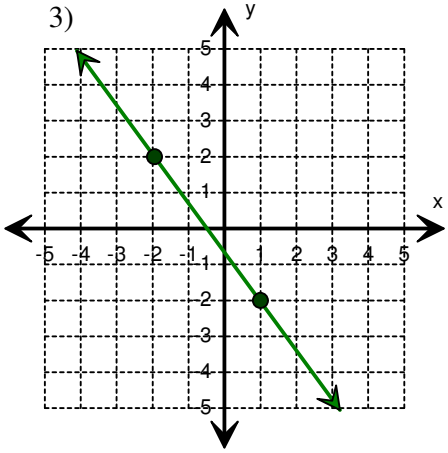
Slope = _____

2)



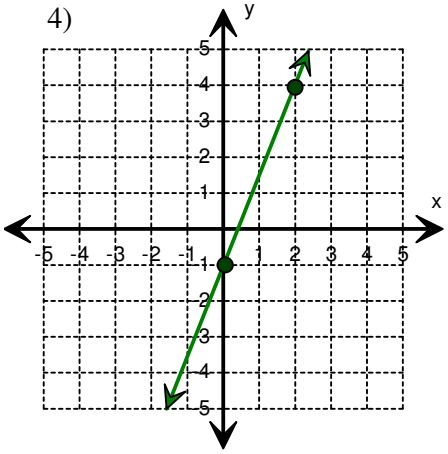
Slope = _____

3)



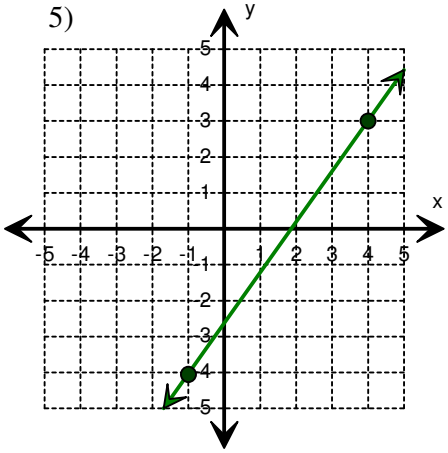
Slope = _____

4)



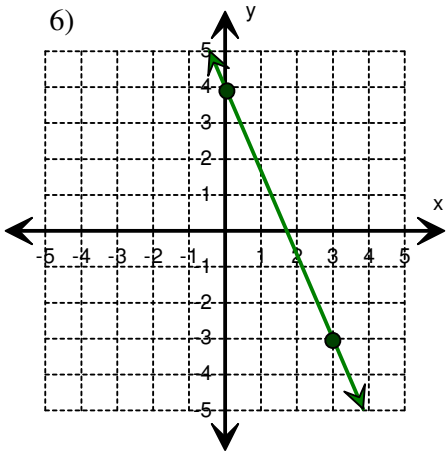
Slope = _____

5)



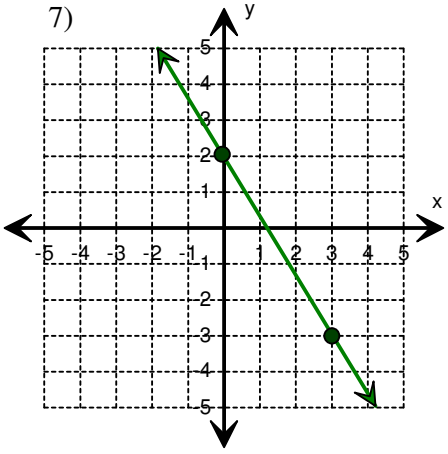
Slope = _____

6)



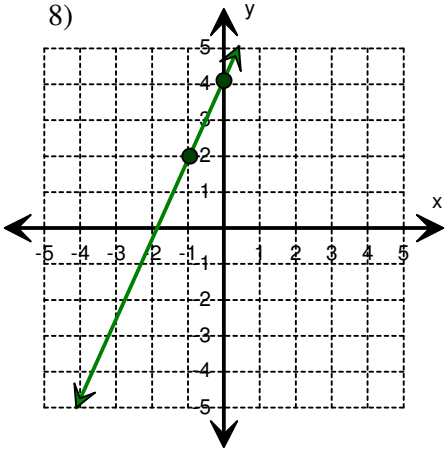
Slope = _____

7)



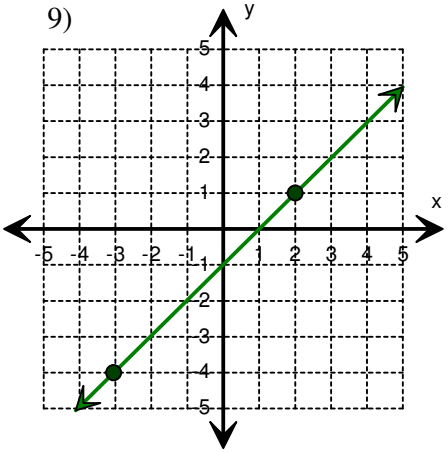
Slope = _____

8)



Slope = _____

9)

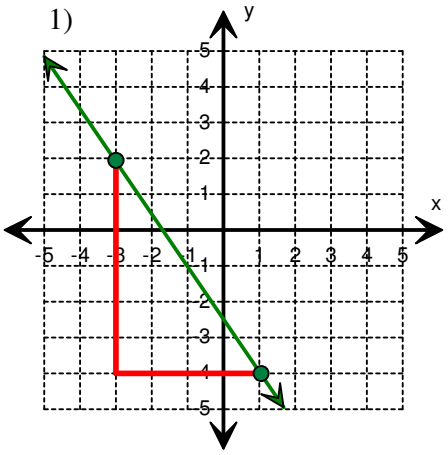


Slope = _____

Name: _____ **Score:**

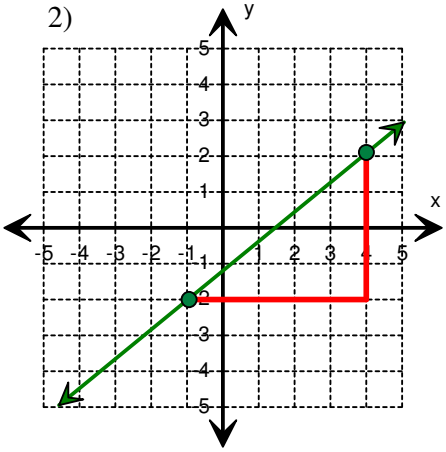
Answers:

1)



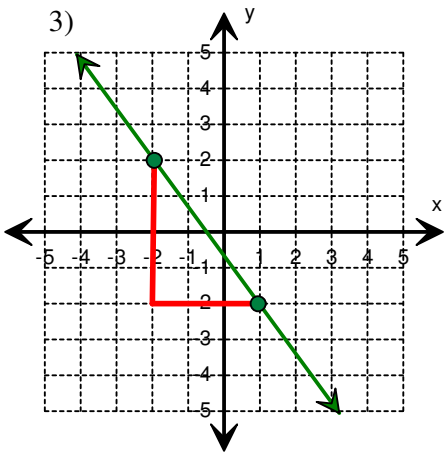
Slope = $-\frac{3}{2}$

2)



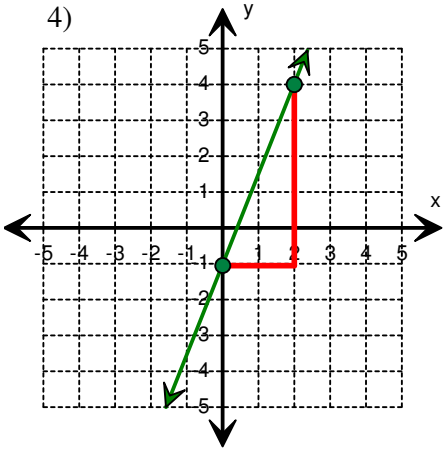
Slope = $\frac{4}{5}$

3)



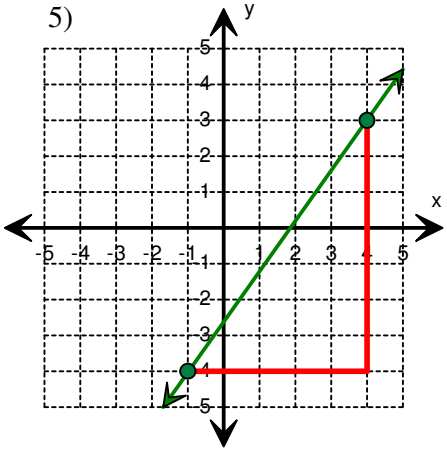
Slope = $-\frac{4}{3}$

4)



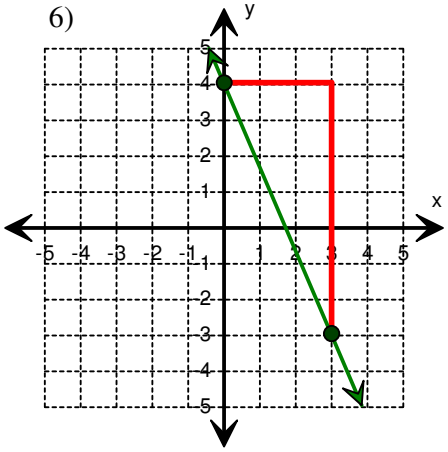
Slope = $\frac{5}{2}$

5)



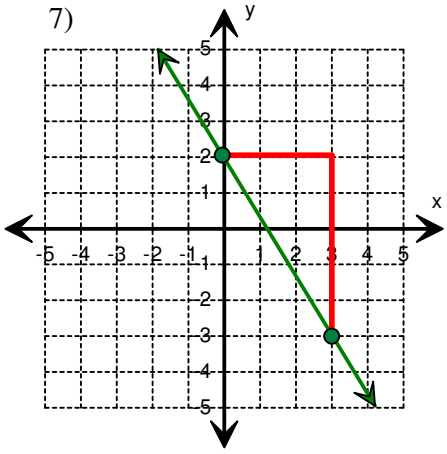
Slope = $\frac{7}{5}$

6)



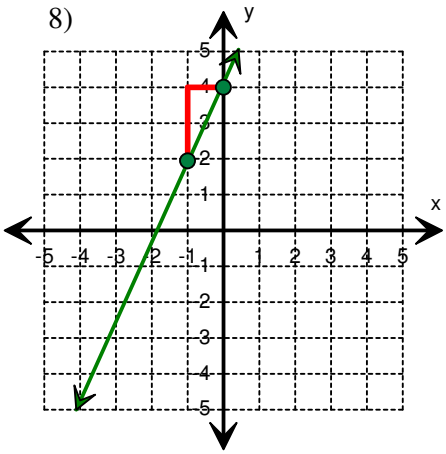
Slope = $-\frac{7}{3}$

7)



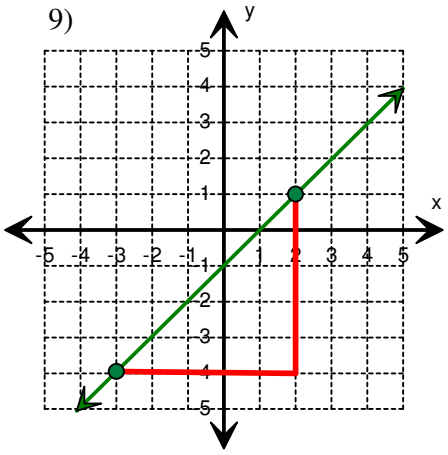
Slope = $-\frac{5}{3}$

8)



Slope = 2

9)



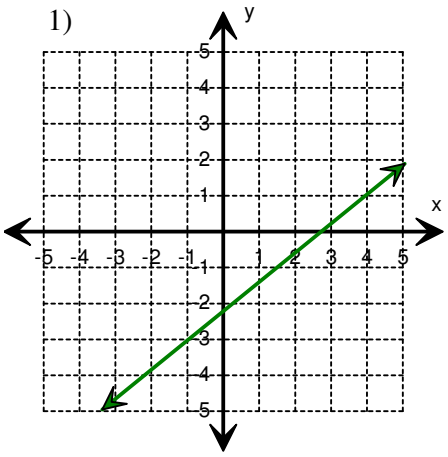
Slope = 1

Name: _____ **Score:**

Slope of the Line

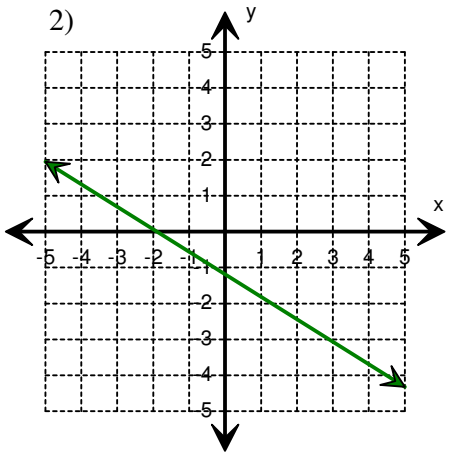
Count the rise and run between any two coordinates; and find the slope of each line.

1)



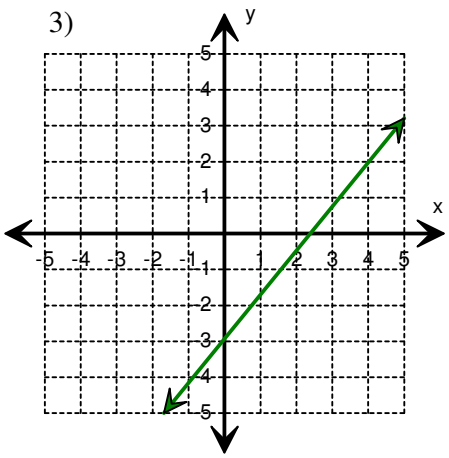
Slope = _____

2)



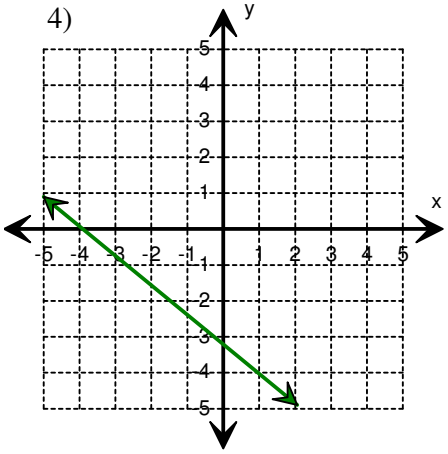
Slope = _____

3)



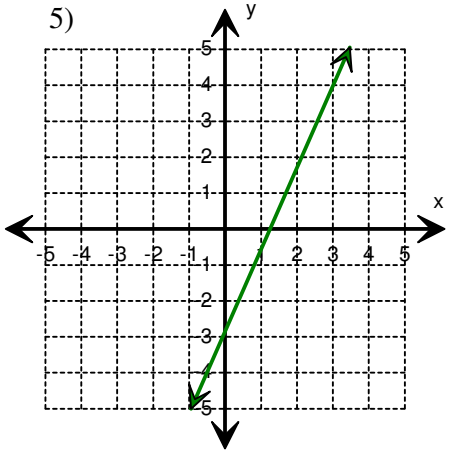
Slope = _____

4)



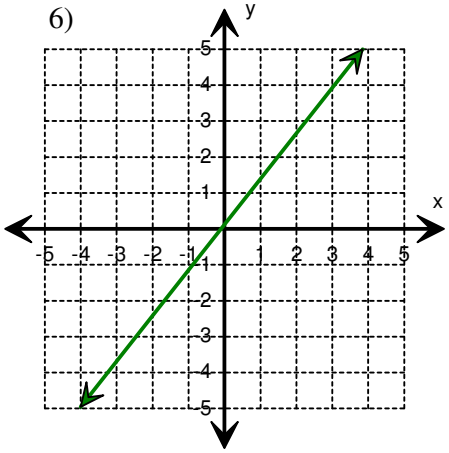
Slope = _____

5)



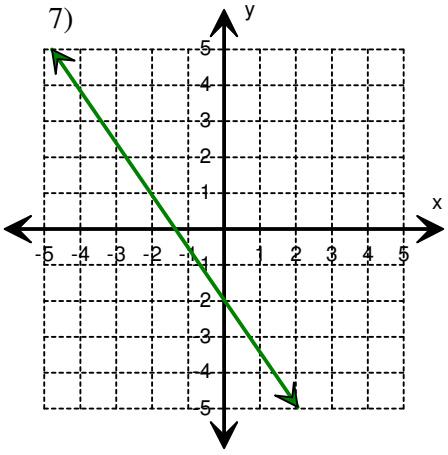
Slope = _____

6)



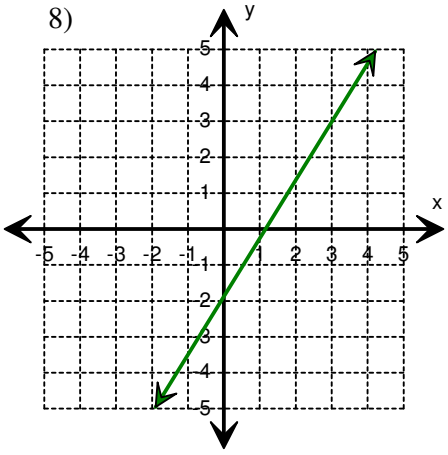
Slope = _____

7)



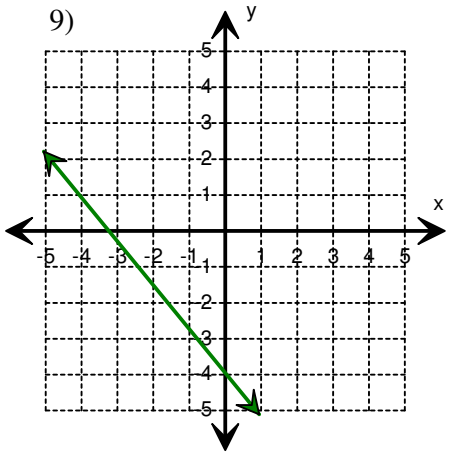
Slope = _____

8)



Slope = _____

9)

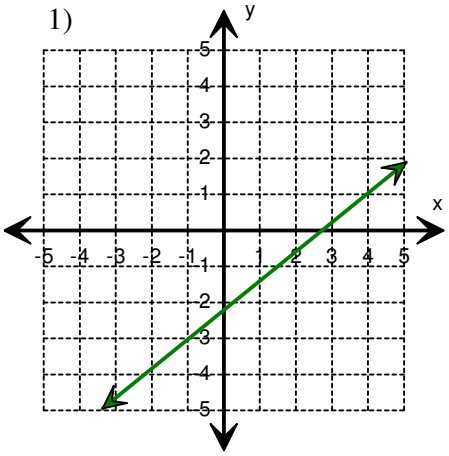


Slope = _____

Name: _____ **Score:**

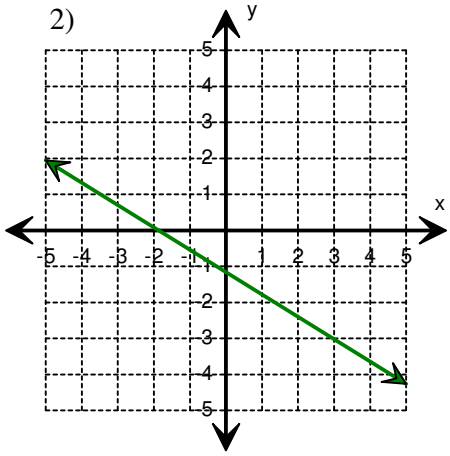
Answers:

1)



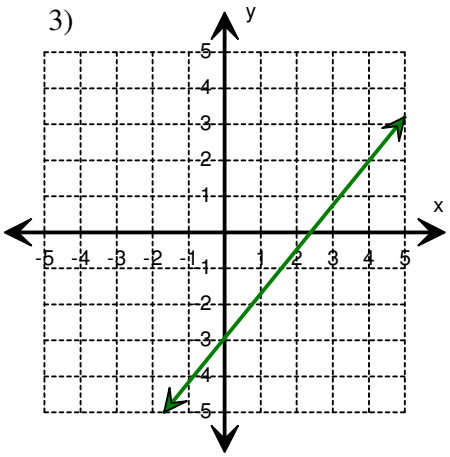
Slope = $\frac{4}{5}$

2)



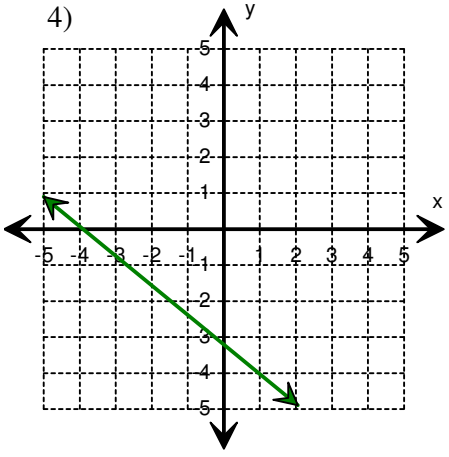
Slope = $-\frac{3}{5}$

3)



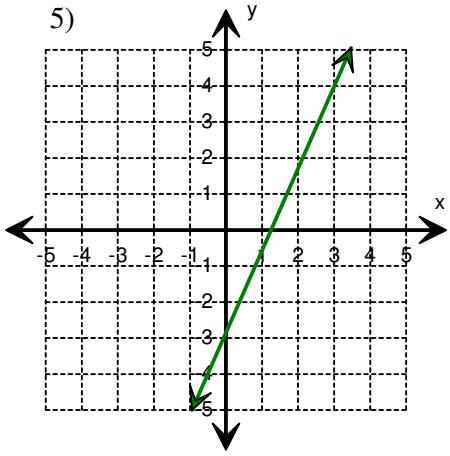
Slope = $\frac{5}{4}$

4)



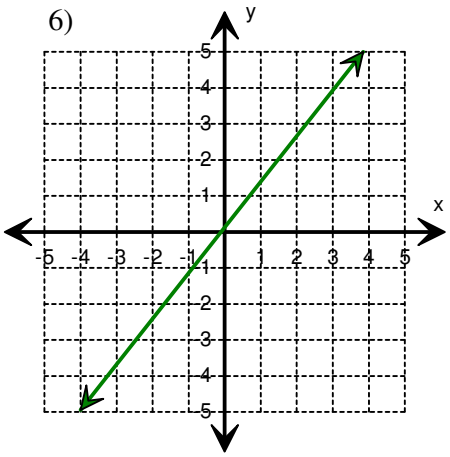
Slope = $-\frac{4}{5}$

5)



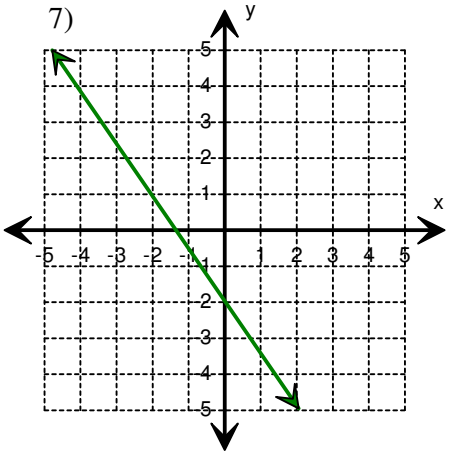
Slope = $\frac{7}{3}$

6)



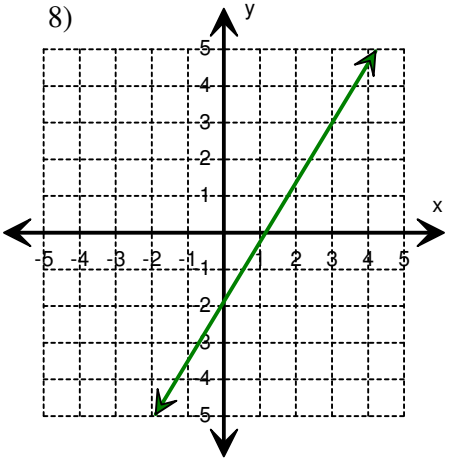
Slope = $\frac{4}{3}$

7)



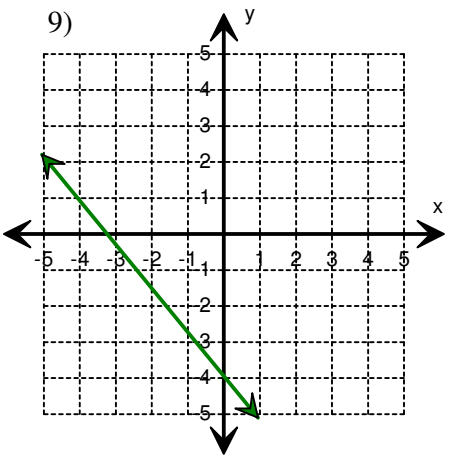
Slope = $-\frac{3}{2}$

8)



Slope = $\frac{5}{3}$

9)



Slope = $-\frac{5}{4}$

Name: _____ **Score:**

Slope: Two-Point Formula

Find the slope using two-point formula.

1) $(3,5)\ and\ (-2,-2)$ $Slope =$ ☐	2) $(4,-1)\ and\ (-5,\ 9)$ $Slope =$ ☐	3) $(8,-5)\ and\ (4,-2)$ $Slope =$ ☐
4) $(1,6)\ and\ (-7,2)$ $Slope =$ ☐	5) $(0,3)\ and\ (7,3)$ $Slope =$ ☐	6) $(-8,2)\ and\ (-2,-6)$ $Slope =$ ☐
7) $(-7,4)\ and\ (-2,-1)$ $Slope =$ ☐	8) $(-4,1)\ and\ (-5,-3)$ $Slope =$ ☐	9) $(4,2)\ and\ (4,6)$ $Slope =$ ☐
10) $(-3,1)\ and\ (-3,-4)$ $Slope =$ ☐	11) $(0,-7)\ and\ (-1,-3)$ $Slope =$ ☐	12) $(2,-1)\ and\ (-2,-1)$ $Slope =$ ☐
13) $(-2,4)\ and\ (5,1)$ $Slope =$ ☐	14) $(7,\ 1)\ and\ (-4,0)$ $Slope =$ ☐	15) $(1,8)\ and\ (-1,-8)$ $Slope =$ ☐

Name: _____ **Score:**

Answers:

1) $(3,5)$ *and* $(-2,-2)$ $Slope =$ $\frac{7}{5}$	2) $(4,-1)$ *and* $(-5,\ 9)$ $Slope =$ $-\frac{10}{9}$	3) $(8,-5)$ *and* $(4,-2)$ $Slope =$ $-\frac{3}{4}$
4) $(1,6)$ *and* $(-7,2)$ $Slope =$ $\frac{1}{2}$	5) $(0,3)$ *and* $(7,3)$ $Slope =$ 0	6) $(-8,2)$ *and* $(-2,-6)$ $Slope =$ $-\frac{4}{3}$
7) $(-7,4)$ *and* $(-2,-1)$ $Slope =$ -1	8) $(-4,1)$ *and* $(-5,-3)$ $Slope =$ 4	9) $(4,2)$ *and* $(4,6)$ $Slope =$ $Undefined$
10) $(-3,1)$ *and* $(-3,-4)$ $Slope =$ $Undefined$	11) $(0,-7)$ *and* $(-1,-3)$ $Slope =$ -4	12) $(2,-1)$ *and* $(-2,-1)$ $Slope =$ 0
13) $(-2,4)$ *and* $(5,1)$ $Slope =$ $-\frac{3}{7}$	14) $(7,\ 1)$ *and* $(-4,0)$ $Slope =$ $\frac{1}{11}$	15) $(1,8)$ *and* $(-1,-8)$ $Slope =$ 8

Linearity Worksheet #3

Name_____ Period_____

Find the slope of each table.

1.

x	y
0	5
1	10
2	15
3	20
4	25
5	30

Slope =

2.

x	y
-2	10
-4	4
-6	-2
-8	-8
-10	-14
-12	-20

Slope =

3.

x	y
1	-5
3	-2
5	1
7	4
9	7
11	10

Slope =

4.

x	y
-3	-1
-2	-4
-1	-7
0	-10
1	-13
2	-16

Slope =

5.

x	y
3	-6
0	-2
-3	2
-6	6
-9	10
-12	14

Slope =

6.

x	y
0	-3
4	-2
8	-1
12	0
16	1
20	2

Slope =

7.

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

Slope =

8.

x	y
-3	6
-1	2
1	-2
3	-6
5	-10
7	-14

Slope =

9.

x	y
-4	-5
-7	-3
-10	-1
-13	1
-16	3
-19	5

Slope =

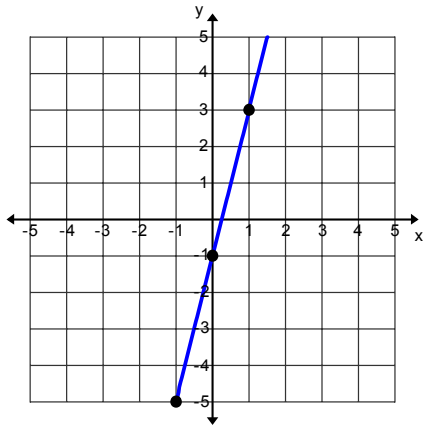
10.

x	y
-10	-8
-5	-5
0	-2
5	1
10	4
15	7

Slope =

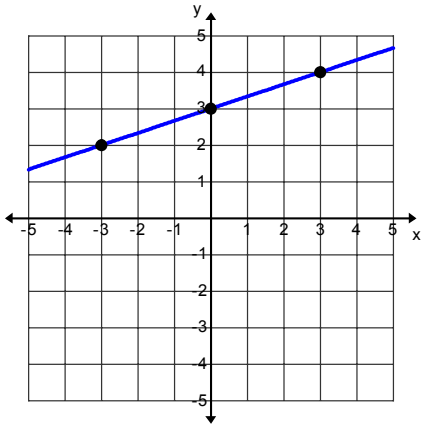
Find the slope of the following lines:

11.



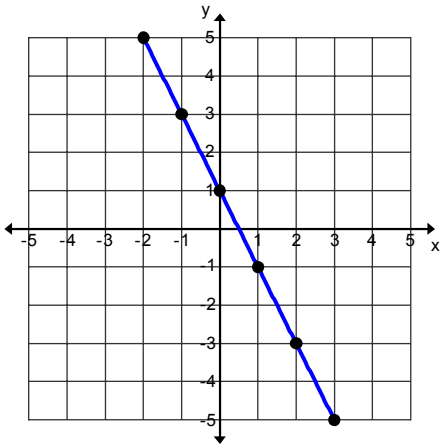
Slope =

12.



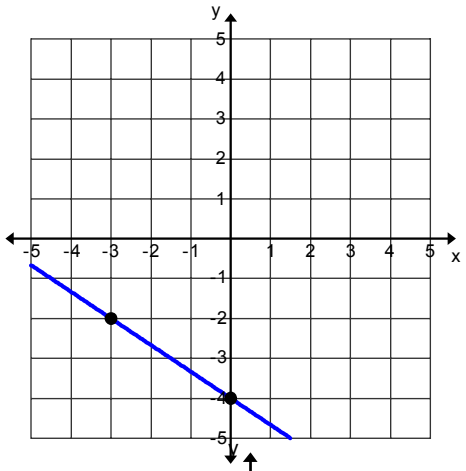
Slope =

13.



Slope =

14.



Slope =

15. Plot and label the following points:

A: (-3, -2)

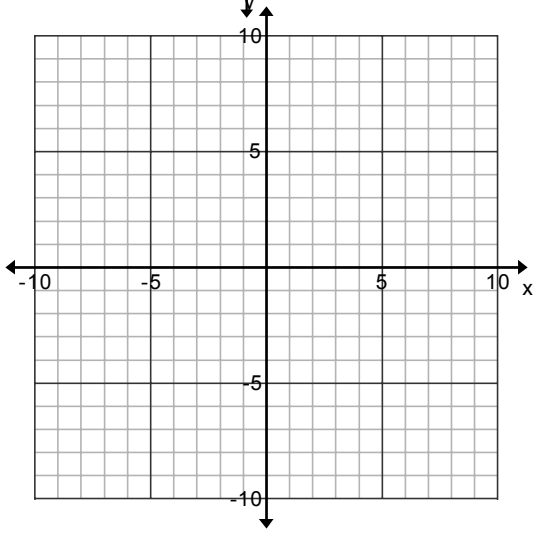
B: (5, 1)

C: (0, -3)

D: (4, 0)

E: (-6, 7)

F: (-3, 0)



Name: _____ Score:

Slope

Write the equation in slope-intercept form and find the slope.

1) $3x + 5y = 9$ Slope =	2) $2y = 7x + 3$ Slope =	3) $4x - y = 1$ Slope =
4) $11x = 2y - 5$ Slope =	5) $x + 4y = 9$ Slope =	6) $3x + 8y - 1 = 0$ Slope =
7) $3y = 6x - 7$ Slope =	8) $5x + 2y = 6$ Slope =	9) $10x - 3y = 1$ Slope =
10) $2x = 3y + 8$ Slope =	11) $x + 9y = 5$ Slope =	12) $4y = x + 5$ Slope =
13) $4x - y = 5$ Slope =	14) $9x = 2y - 4$ Slope =	15) $3y = 7x + 2$ Slope =
16) $-5x + y + 3 = 0$ Slope =	17) $y = 7x + 9$ Slope =	18) $3x + 2y = 4$ Slope =
19) $11x = 3y - 4$ Slope =	20) $6x + 4y = 5$ Slope =	21) $5y = x - 3$ Slope =

Name: _____ **Score:**

Answers:

1) $3x + 5y = 9$ $y = -\frac{3}{5}x + \frac{9}{5}$ Slope = $-\frac{3}{5}$	2) $2y = 7x + 3$ $y = \frac{7}{2}x + \frac{3}{2}$ Slope = $\frac{7}{2}$	3) $4x - y = 1$ $y = 4x - 1$ Slope = 4
4) $11x = 2y - 5$ $y = \frac{11}{2}x + \frac{5}{2}$ Slope = $\frac{11}{2}$	5) $x + 4y = 9$ $y = -\frac{1}{4}x + \frac{9}{4}$ Slope = $-\frac{1}{4}$	6) $3x + 8y - 1 = 0$ $y = -\frac{3}{8}x + \frac{1}{8}$ Slope = $-\frac{3}{8}$
7) $3y = 6x - 7$ $y = \frac{6}{3}x - \frac{7}{3}$ Slope = 2	8) $5x + 2y = 6$ $y = -\frac{5}{2}x + \frac{6}{2}$ Slope = $-\frac{5}{2}$	9) $10x - 3y = 1$ $y = \frac{10}{3}x - \frac{1}{3}$ Slope = $\frac{10}{3}$
10) $2x = 3y + 8$ $y = \frac{2}{3}x - \frac{8}{3}$ Slope = $\frac{2}{3}$	11) $x + 9y = 5$ $y = -\frac{1}{9}x + \frac{5}{9}$ Slope = $-\frac{1}{9}$	12) $4y = x + 5$ $y = \frac{1}{4}x + \frac{5}{4}$ Slope = $\frac{1}{4}$
13) $4x - y = 5$ $y = 4x - 5$ Slope = 4	14) $9x = 2y - 4$ $y = \frac{9}{2}x + 2$ Slope = $\frac{9}{2}$	15) $3y = 7x + 2$ $y = \frac{7}{3}x + \frac{2}{3}$ Slope = $\frac{7}{3}$
16) $-5x + y + 3 = 0$ $y = 5x - 3$ Slope = 5	17) $y = 7x + 9$ $y = 7x + 9$ Slope = 7	18) $3x + 2y = 4$ $y = -\frac{3}{2}x + 2$ Slope = $-\frac{3}{2}$
19) $11x = 3y - 4$ $y = \frac{11}{3}x + \frac{4}{3}$ Slope = $\frac{11}{3}$	20) $6x + 4y = 5$ $y = -\frac{6}{4}x + \frac{5}{4}$ Slope = $-\frac{3}{2}$	21) $5y = x - 3$ $y = \frac{1}{5}x - \frac{3}{5}$ Slope = $\frac{1}{5}$

Name_____ Geometry Worksheet Slope

Find the slope between the two lines, then determine whether the lines are *parallel*, *perpendicular* or *neither*.

1) Line 1: (0,3) and (2, 4)
Line 2: (2, 1) and (8, 4)

2) Line 1: (-1, 3) and (0, 5)
Line 2: (2, 1) and (6, -1)

3) Line 1: (-1, 3) and (4, 4)
Line 2: (3, 1) and(-2, 2)

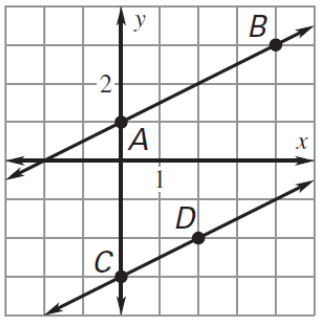
4) Line 1: (0, -3) and (-2, -7)
Line 2: (2, 1) and (0, 3)

5) Line 1: (-2, 2) and (1, -3)
Line 2: (-2, 1) and (3, 4)

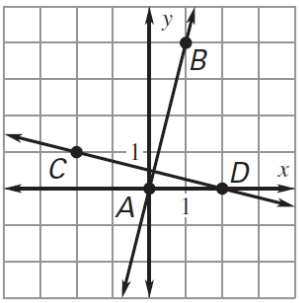
6) Line 1: (-2, 5) and (1, 4)
Line 2: (4, 0) and (5, 3)

Find the slope of the two lines. Determine if the lines are parallel, perpendicular or neither.

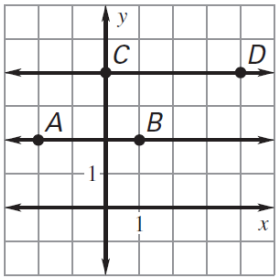
7)



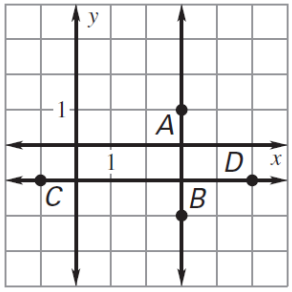
8)



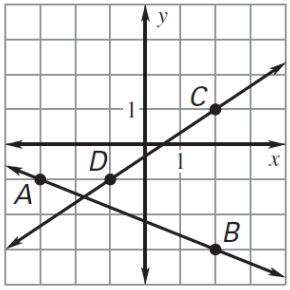
9)



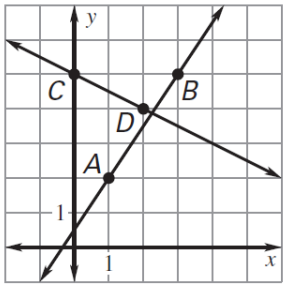
10)



11)

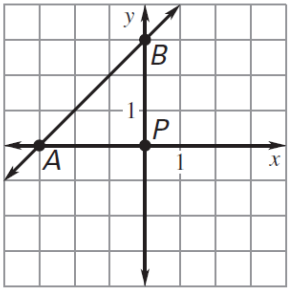


12)

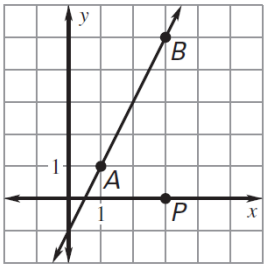


Graph a line that is parallel to $\overleftrightarrow{AB}$ and passes through point P.

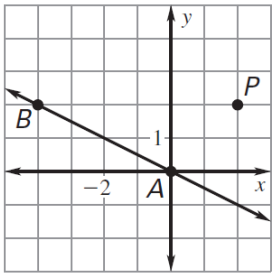
13)



14)

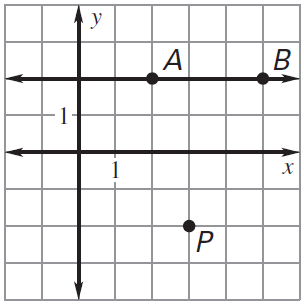


15)

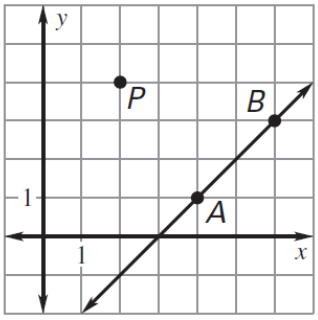


Graph a line that is perpendicular to $\overleftrightarrow{AB}$ and passes through point P.

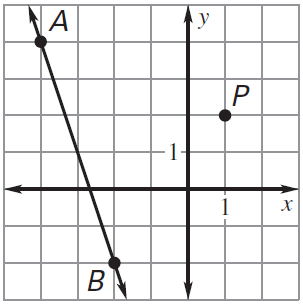
16)



17)



18)



Mixed Review on Finding Slope
Applied Algebra/Geometry I

NAME:_____ DATE:_____

Calculate the slope of the line that contains the following points. Leave answers as fractions – BUT reduce your fractions as much as possible!!!!!!! SHOW ALL WORK!!!

1) (4, 5) and (-4, 3) 1)_____

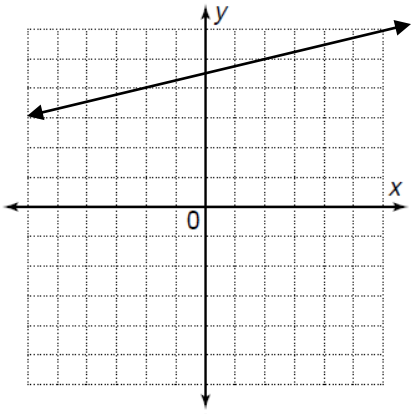
2) (-2, -4) and (6, 7) 2)_____

3) (2, -4) and (10, 12) 3)_____

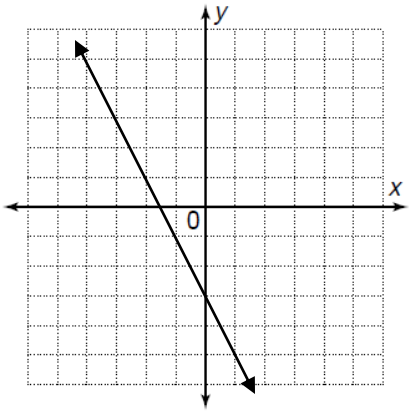
4) $(\frac{1}{2}, 2)$ and $(1, \frac{2}{3})$ 4)_____

5) $(\frac{1}{4}, 5)$ and $(\frac{5}{4}, 12)$ 5)_____

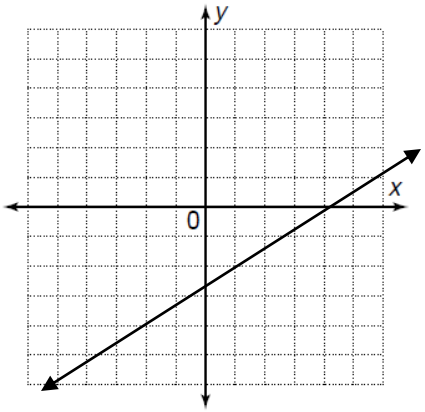
Calculate the slope of the line. Leave answers as fractions – BUT reduce your fractions as much as possible!!!!!!! SHOW ALL WORK!!! USE your guided notes to help you draw the triangles!!!!!

6) 

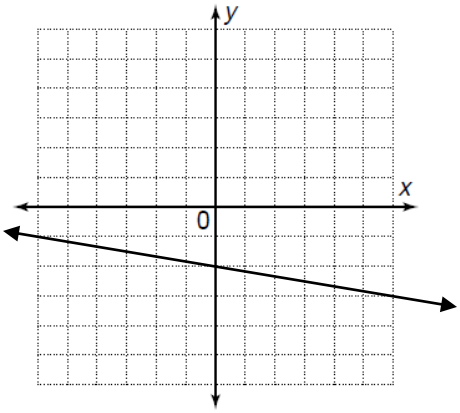
6) _____

7) 

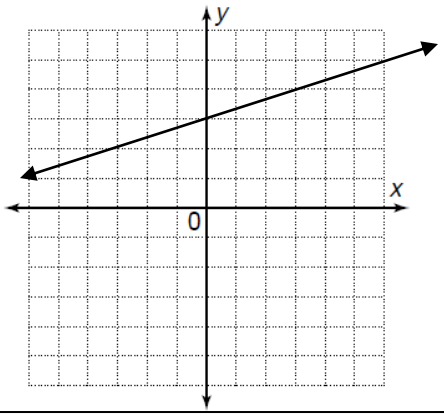
7)_____

8) 

8)_____

9) 

9)_____

10) 

10)_____

Calculate the slope represented by the table. Leave answers as fractions – BUT reduce your fractions as much as possible!!!!!!! SHOW ALL WORK!!!

11)_____

x	y
3	6
6	12
9	18
12	24
15	30

12)_____

x	y
-2	3
1	2
4	1
8	$-\frac{1}{3}$
11	$-\frac{4}{3}$

13) _____

x	y
-3	-2
5	2
7	3
10	4.5
14	6.5

14)_____

x	y
-1	-5
5	1
7	3
9	5
10	6

15)_____

x	y
-4	-11
-1	-5
5	7
8	13
12	21

Find each Slope.

16) $y = \frac{1}{2}x - \frac{4}{3}$

17) $y = -3x + 2$

18) $y = 4$

19) $y = -2x$

20) $x = -2$

21) $y = -0.5x + 5$

22) $3x + y = 15$