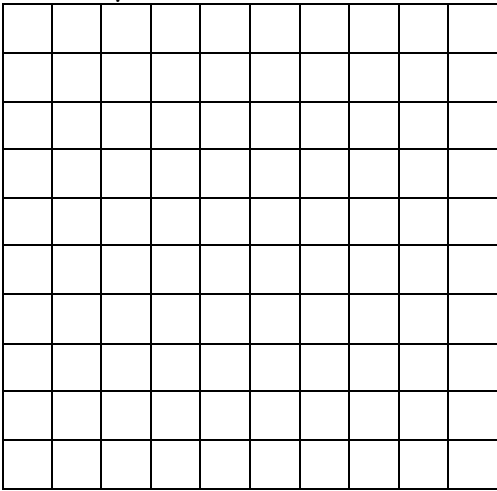


Name: \_\_\_\_\_

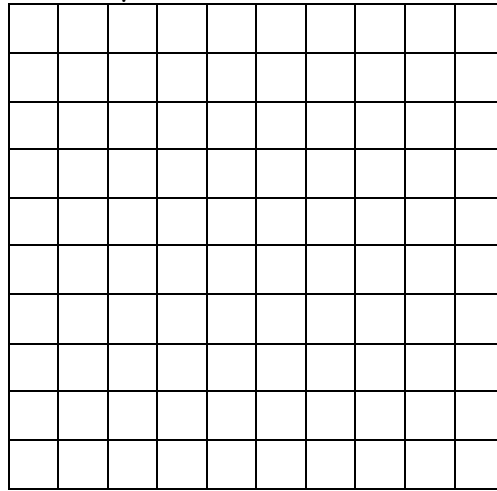
**Linear Study Guide**

Graph the equation.

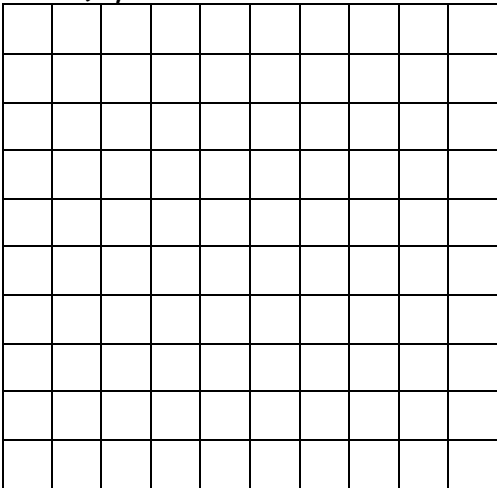
1)  $y = 2x + 3$



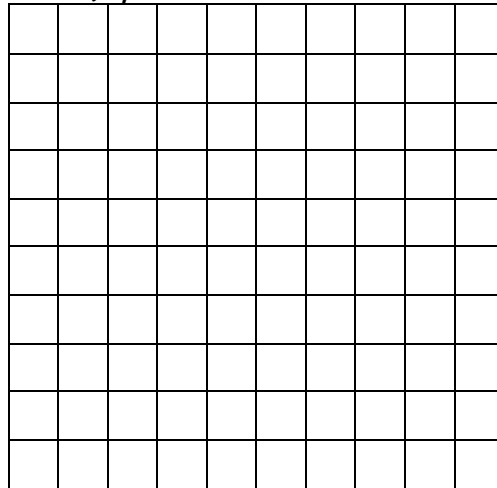
2)  $y = \frac{1}{2}x - 4$



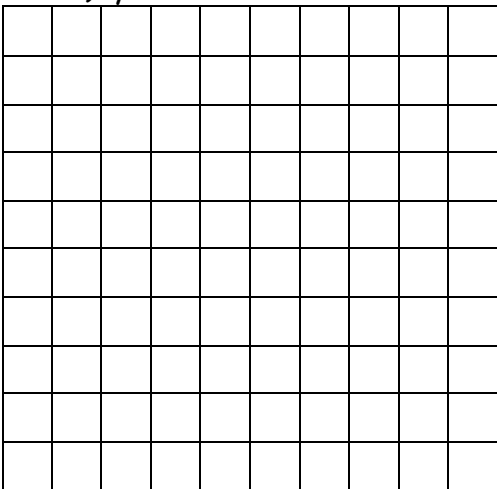
3)  $y = -4x + 1$



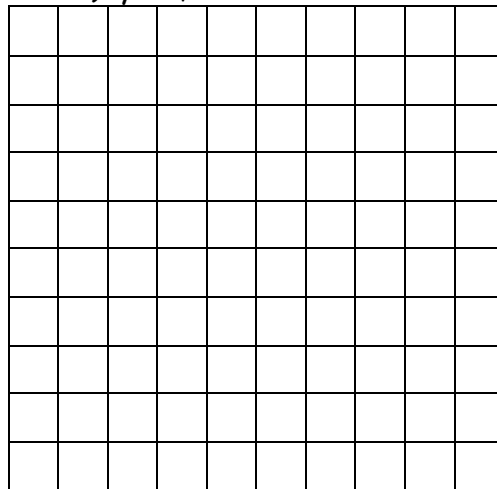
4)  $y = -x - 2$



5)  $y = 3x + 1$

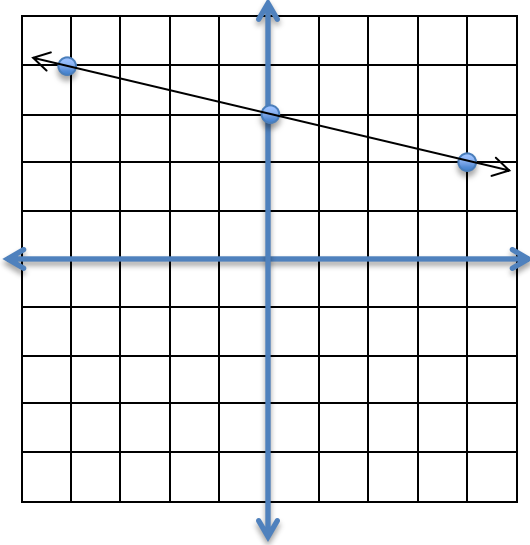


6)  $y = \frac{1}{4}x - 3$

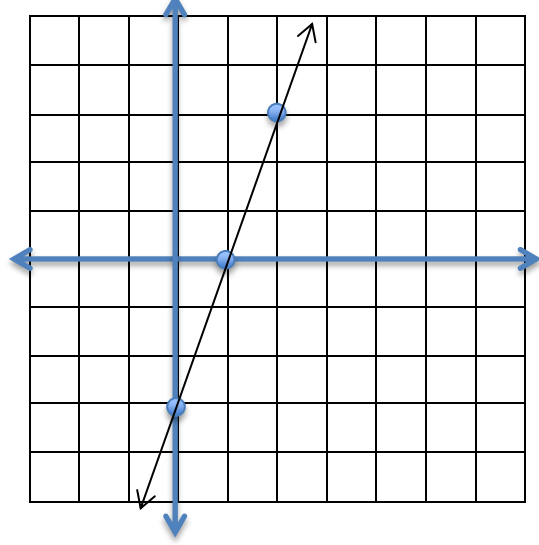


Find the equation of the line in slope-intercept form ( $y=mx+b$ ).

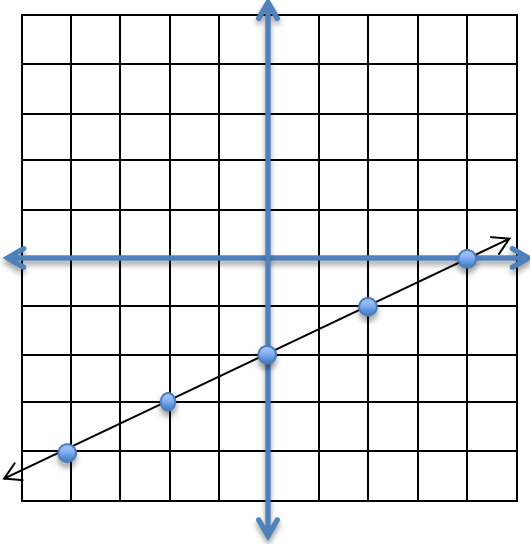
1) Equation: \_\_\_\_\_



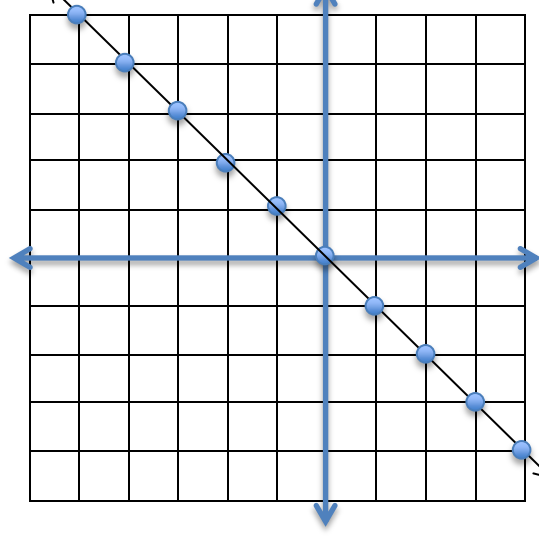
2) Equation: \_\_\_\_\_



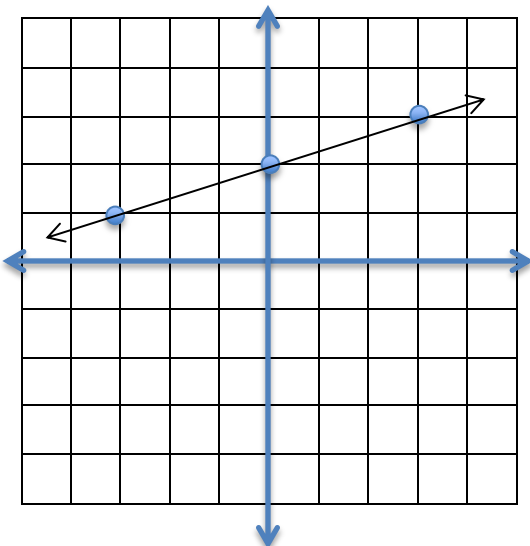
3) Equation: \_\_\_\_\_



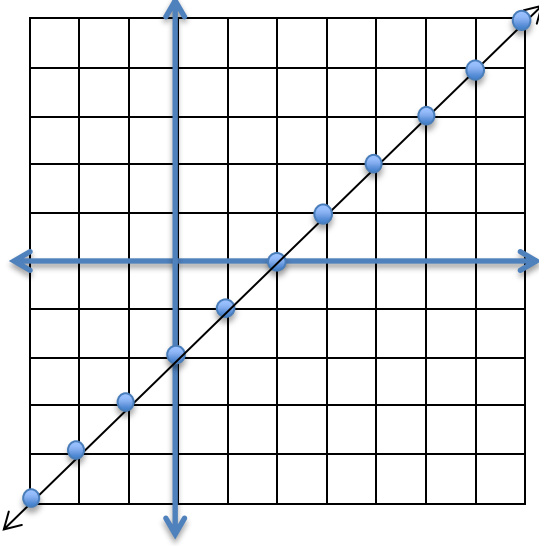
4) Equation: \_\_\_\_\_



5) Equation: \_\_\_\_\_



6) Equation: \_\_\_\_\_



Find the slope of the line that passes between the two points.

1)  $(4, 4)$  and  $(5, 6)$

3)  $(3, 1)$  and  $(6, 2)$

2)  $(1, -1)$  and  $(3, -5)$

4)  $(5, 6)$  and  $(10, 8)$

Find the slope of the line in the table.

1)

x	y
0	7
1	4
2	1
3	-2

2)

x	y
-4	8
-2	9
0	10
2	11

3)

x	y
-5	0
0	20
5	40
10	60

Write the equation of the line in slope-intercept form ( $y=mx+b$ ) given the slope and the y-intercept.

1)  $m = 6$  and  $b = 4$

2)  $m = 2/3$  and  $b = -1$

3)  $m = -1$  and  $b = 3$

Write the equation of the line in slope-intercept form ( $y=mx+b$ ) given the slope and a point.

1)  $m = 3$  and  $(2, 5)$

2)  $m = \frac{1}{2}$  and  $(4, 7)$

3)  $m = -4$  and  $(3, -2)$

Are the following linear or not?

1)  $y = 5x - 3$

2)  $y = 2x^3 + 5x^2 - 1$

3)  $y = (x + 3)(x - 10)$

4)  $y = 2x - 5x$

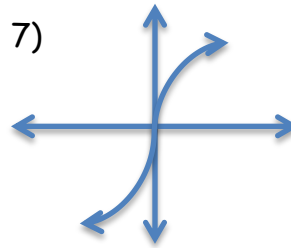
5)

x	y
1	1
2	8
3	27
4	64

6)

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

7)



8)

