

Name: _____
Period: _____

Review Unit 5
Basic Skills

Write an equation of the line with the given slope and y-intercept.

1. $\text{slope} = 4, y - \text{intercept} = -3$

2. $\text{slope} = 3, y - \text{intercept} = 7$

3. $\text{slope} = -5, y - \text{intercept} = -1$

4. $\text{slope} = \frac{1}{2}, y - \text{intercept} = -8$

Write an equation of the line that passes through the given point with the given slope.

1. $(-3, 5), m = 2$

6. $(-3, 2), m = -3$

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

8. $(7, 0), m = -\frac{2}{3}$

Write an equation of the line that passes through the given points.

9. $(2, 8), (-5, 1)$

10. $(-7, 3), (-4, 1)$

Write an equation of the line that is parallel to the given line and passes through the given point.

11. $y = 5x - 3, (-2, 6)$

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

Write an equation of the line that is perpendicular to the given line and passes through the given point.

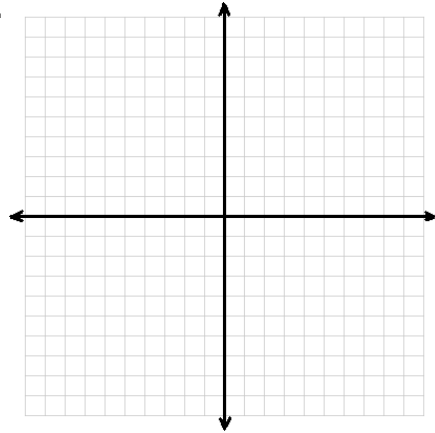
13. $y = 3x - 4, (5,4)$

14. $y = \frac{1}{2}x + 3, (-3,4)$

For each problem, draw a scatter plot of the data. Draw a best-fitting line for the scatter plot and write an equation of the line.

14.

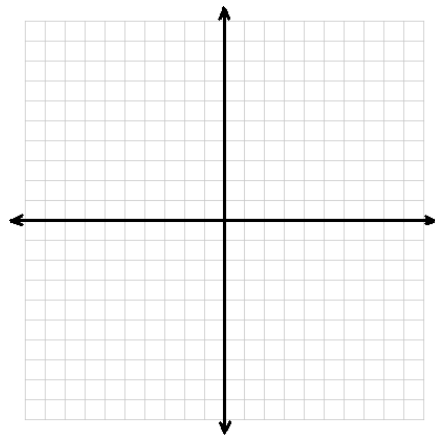
x	y
1	1
2	0
3	-2
4	-2
5	-3
6	-4



Equation: _____

15.

x	y
-4	6
-2	5
-2	4
0	2
2	0
3	0
4	-2
6	-4



Equation: _____