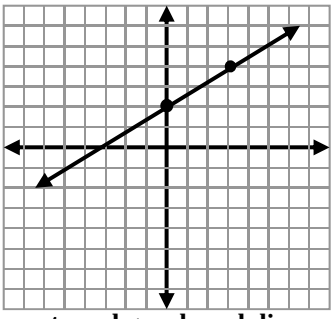
Extra Practice #1

Write in point-slope form an equation of the line through each pair of points.

1. (–2, –3) and (2, –1)

2. (–5, –2) and (–3, 8)

3. Write an equation in slope-intercept form for the line graphed.



Find the intercepts and graph each line.

4. $x + 3y = -6$

5. $-2x - 5y = -10$

Graph each line.

6. $y = -\frac{4}{5}x + 5$

7. $y = -2$

8. $x = 4$

9. Write an equation in slope-intercept form for the line containing the points (7, 11) and (13,17).

10. Write the equation of a line in standard form passing through (-1,-5) and (-6,-2).

11. Tell whether this relation represents a function. **Explain**.

x	3	4	3	5
y	7	2	2	1

Graph each inequality.

12. $-2y < -x - 2$

13. $y \geq x$

14. $y \geq 3$

15. $x < -2$

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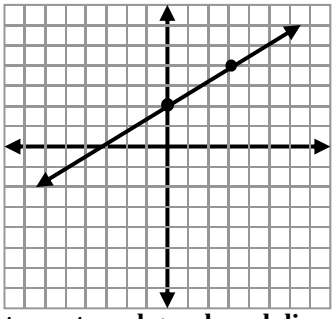

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Answers:

1. $y + 3 = \frac{1}{2}(x + 2) or\ y + 1 = \frac{1}{2}(x - 2)$
2. $y + 2 = 5(x + 5) or\ y - 8 = 5(x + 3)$
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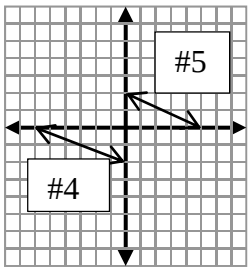

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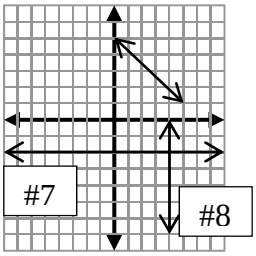
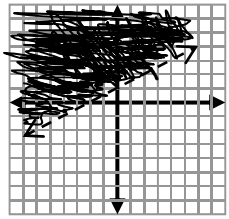


9. y = x + 4
10. 3x + 5y = -28
11. no, there are two y-values for x = 3
12.



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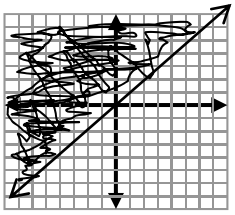

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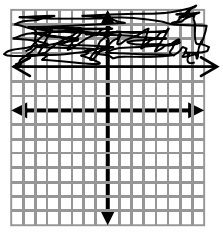

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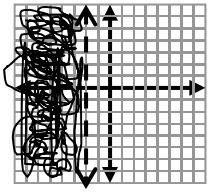

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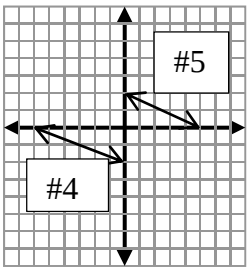

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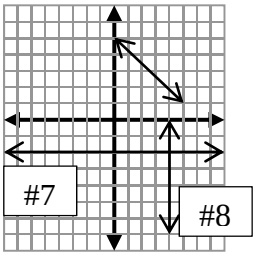

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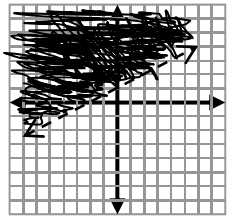

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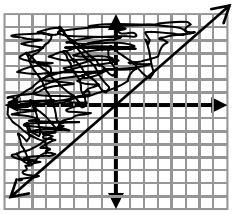

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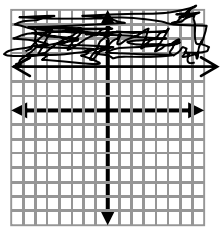

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