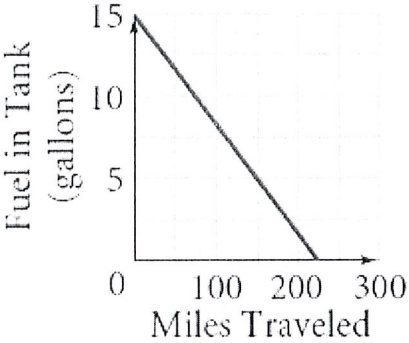
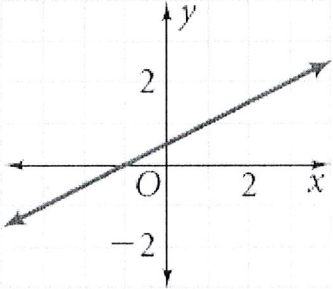
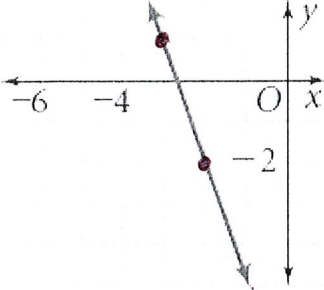
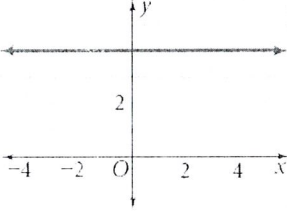
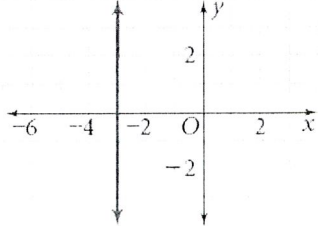
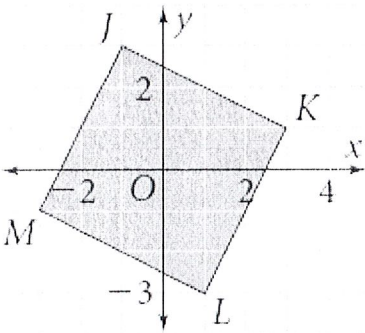
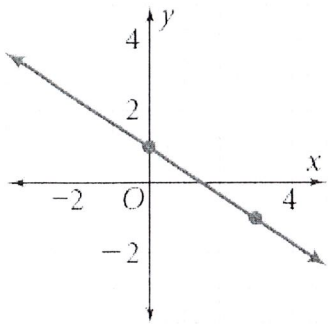
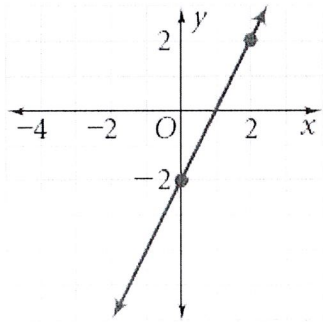
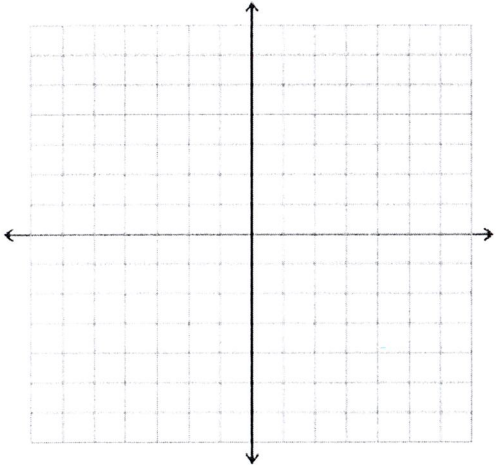
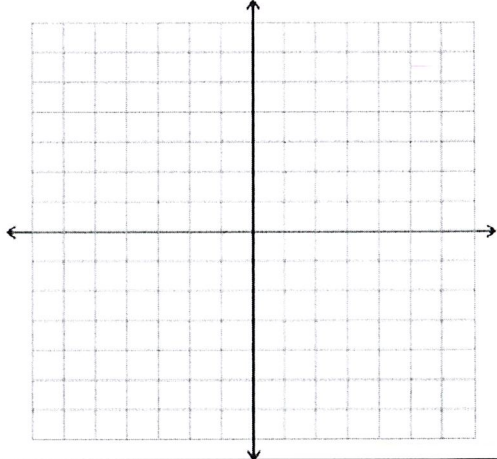


Name _____

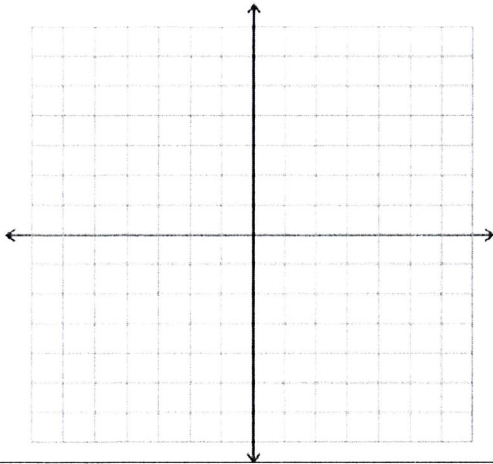
Bookwork 6.1 pages 286-289

<p>3. Find the rate of change, explain what it means.</p> <p>3. A Tank of Gas</p> 	<p>7. Find the slope of the line</p> <p>7.</p> 
<p>8. Find the slope of the line</p> <p>8.</p> 	<p>Find the slope:</p> <p>15. $(-3, 1)$ $(3, -5)$</p>
<p>18. Find the slope of the line: $(-4, -5)$ $(-9, 1)$</p>	<p>21. find the slope of the line: $(0, -1)$ $(1, -6)$</p>
<p>Find the slope:</p> <p>22.</p> 	<p>Find the slope:</p> <p>23.</p> 

<p>Find the rate of change:</p> <p>28. The cost of group museum tickets is \$48 for 4 people and \$78 for ten people.</p>	<p>Find the slope of the line:</p> <p>25. $(4, 3)$, $(4, -3)$</p>
<p>26. Find the slope of the line: $(-5, \frac{1}{2})$, $(-5, 3)$</p>	<p>Find the slope of the line:</p> <p>31. $(4, 1\frac{2}{3})$, $(-2, \frac{2}{3})$</p>
<p>Find the slopes of the sides:</p> <p>45.</p> 	<p>Find x or y:</p> <p>51. $(x, 3)$, $(2, 8)$; slope = $-\frac{5}{2}$</p>
<p>Find the slope:</p> <p>63. $(a, -b)$, $(-a, -b)$</p>	<p>Find the slope:</p> <p>65. $(2a, b)$, $(c, 2d)$</p>
<p>Do the points lie on the same line? Explain.</p> <p>66. $A(1, 3)$, $B(4, 2)$, $C(-2, 4)$</p>	<p>72. A line has slope $\frac{4}{3}$. Through which two points could this line pass?</p> <p>A. $(24, 19)$, $(8, 10)$ B. $(10, 8)$, $(16, 0)$ C. $(28, 10)$, $(22, 2)$ D. $(4, 20)$, $(0, 17)$</p>

<p>State the slope and y-intercept:</p> <p>3. $y = x - \frac{5}{4}$</p>	<p>Write the equation of the line:</p> <p>18. $m = -7, b = \frac{1}{3}$</p>
<p>Write an equation in slope intercept form</p> <p>22.</p> 	<p>Write an equation in slope intercept form</p> <p>14.</p> 
<p>Graph: 34. $Y = 4x - 3$</p> 	<p>Graph: 37. $Y = -\frac{2}{3}x + 2$</p> 
<p>Find the slope and y-intercept</p> <p>46. $-2y = 6(5 - 3x)$</p>	<p>Find the slope and y-intercept</p> <p>45. $2y - 6 = 3x$</p>

33. graph: $y = -x + 2$

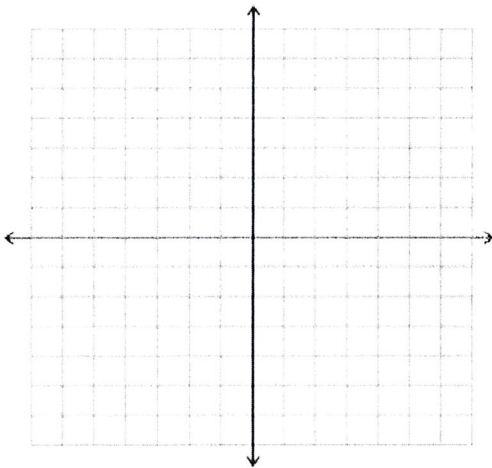


Find the slope and y-intercept

47. $y - d = cx$

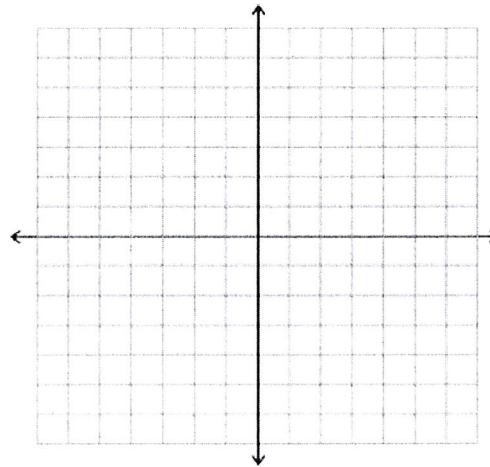
Find the slope and y-intercept then graph

51. $2y + 4x = 0$



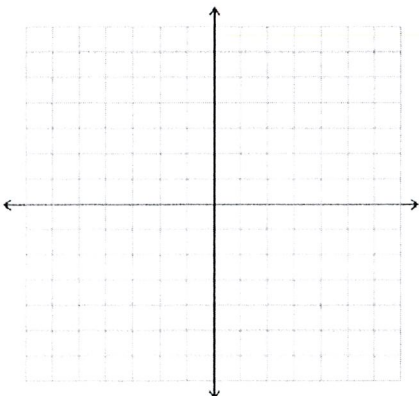
Find the slope and y-intercept then graph

52. $3y + 6 = -2x$



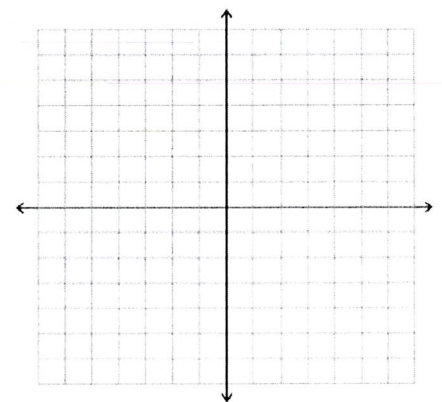
Find the slope and y-intercept and graph:

53. $y + 2 = 5x - 4$



Find the slope and y-intercept and graph:

54. $4x + 3y = 2x - 1$



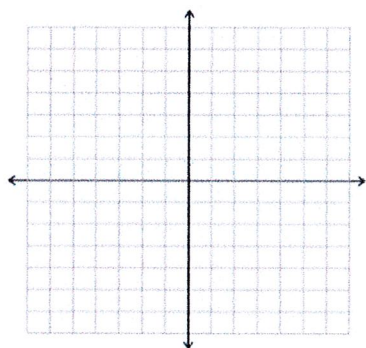
1. Find the x and y intercepts:
 $x + 2y = 18$

4. Find the x and y intercepts:
 $-6x + 3y = -9$

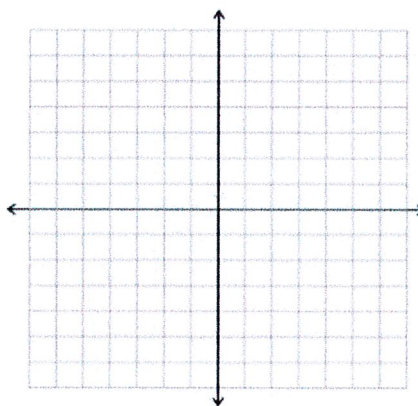
8. Find the x and y intercepts:
 $7x - 2y = 4$

9. Find the x and y intercepts:
 $-8x + 10y = 40$

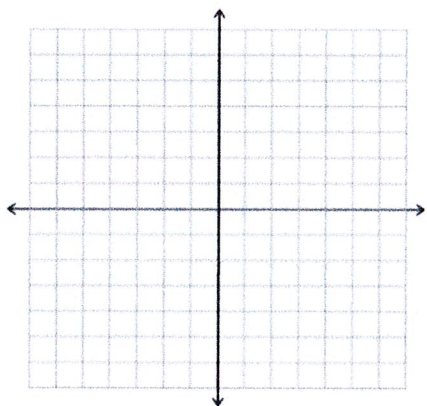
14. graph using x and y intercepts
 $x + y = -5$



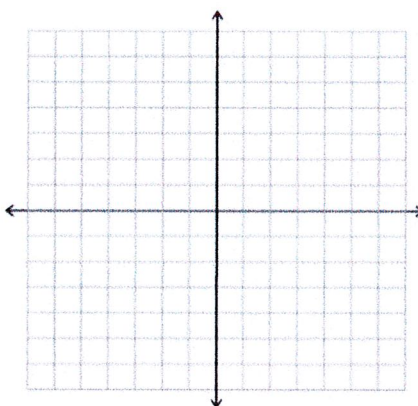
15. graph using x and y intercepts
 $x - y = -7$



16. graph using x and y intercepts
 $-3x + y = 6$

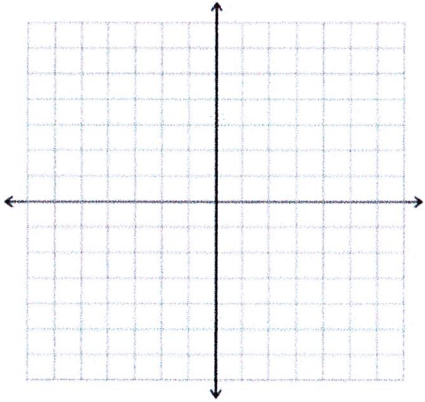


18. graph using x and y intercepts
 $5x - 3y = 15$

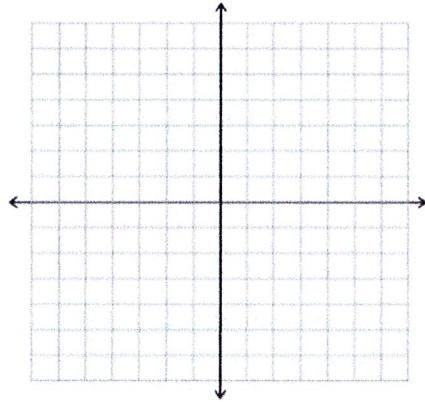


pgs 301-303

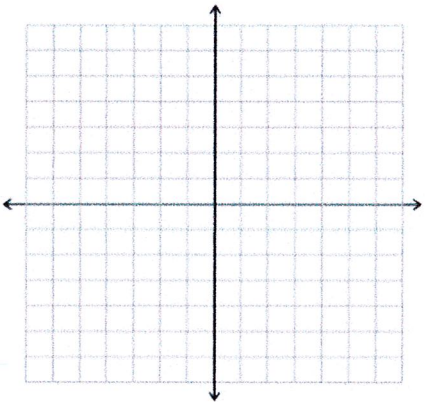
23. graph the line $y = 3$



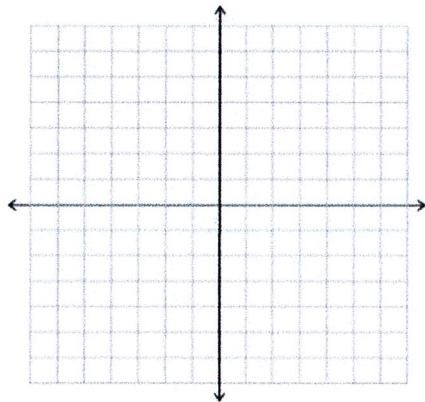
24. graph the line $x = -7$



25. graph the line $y = -1.5$



26. graph the line $x = 4.5$



27. write in standard form using integers:
 $y = 3x + 1$

29. write in standard form using integers:
 $y = \frac{1}{2}x - 3$

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31. write in standard form using integers:

$$y = -\frac{3}{4}x - 4$$

33. write in standard form using integers:

$$y = \frac{7}{2}x + \frac{1}{4}$$

34. write in standard form using integers:

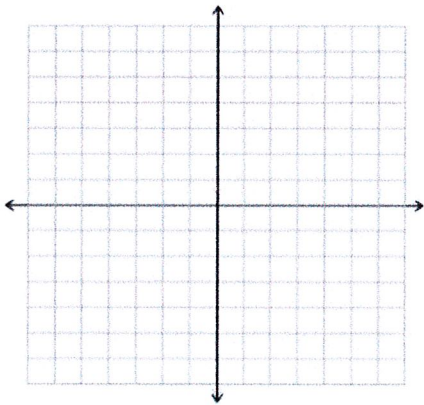
$$y = -\frac{2}{5}x + \frac{1}{10}$$

37. Larry runs at an average rate of 8 mi/h. He walks at an average rate of 3 mi/h.

a. define a variable for time spent walking. Define a variable for time spend running.

b. Write an equation in standard form to relate the times he could spend running and walking if he travels a distance of 15 miles.

45. graph: $9 + y = 8 - x$



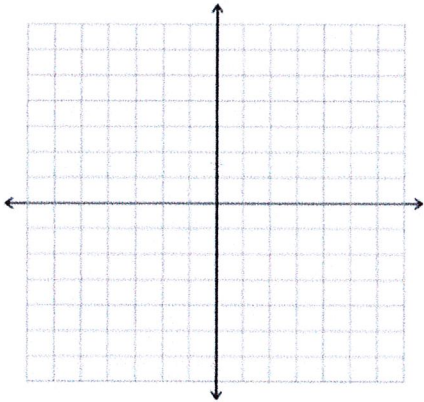
67. What is the slope of $Ax + By = C$?

For #1-9, identify the point and slope then graph

1. $y - 2 = (x - 3)$

point _____

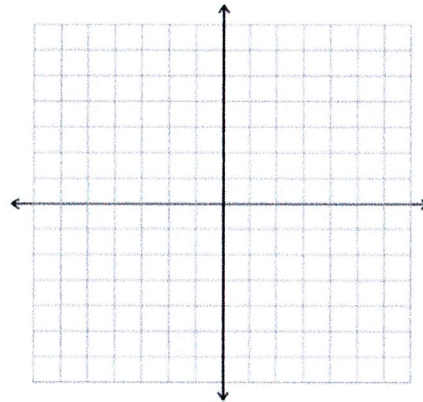
slope _____



$$y - 2 = -\frac{3}{2}(x - 3)$$

point _____

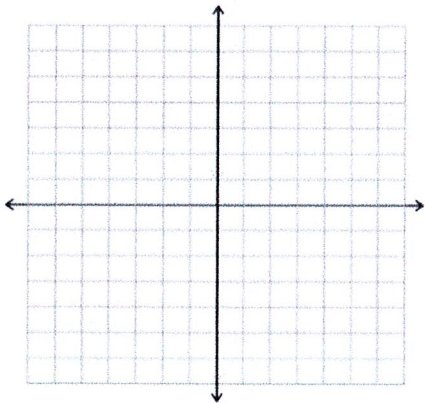
slope _____



$$y + 1 = \frac{2}{3}(x + 4)$$

point _____

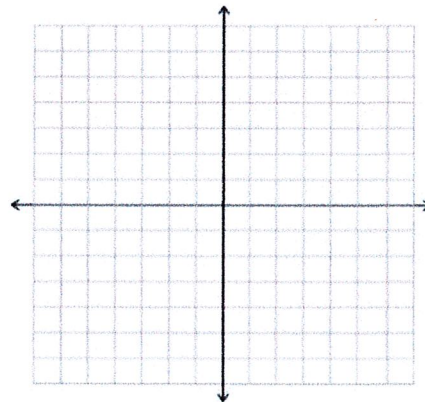
slope _____

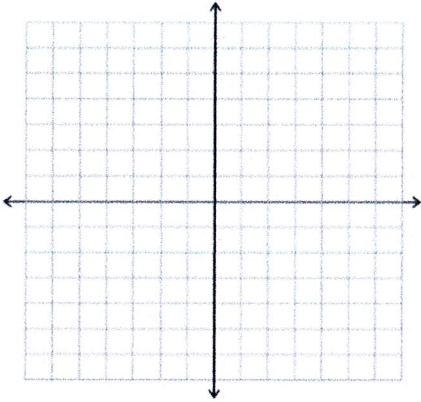


$$y + 3 = -2(x - 1)$$

point _____

slope _____



<p>$y - 2 = 3(x + 2)$</p> <p>point _____</p> <p>slope _____</p> 	<p>For #10-18 write an equation in point slope form</p> <p>10. (3, -4) $m = 6$</p> <p>13. (-2, -7) $m = -\frac{3}{2}$</p> <p>18. (-6, 1) $m = \frac{2}{3}$</p>
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For #19-30, A. write an equation in point slope form; B. write the equation in slope intercept form

<p>22. (6, -4) (-3, 5)</p>	<p>23. (-1, -5) (-7, -6)</p>
<p>24. (-3, -4) (3, -2)</p>	<p>25. (2, 7) (1, -4)</p>

31. is the data in the table linear? If so, write an equation in point slope and slope intercept form.

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

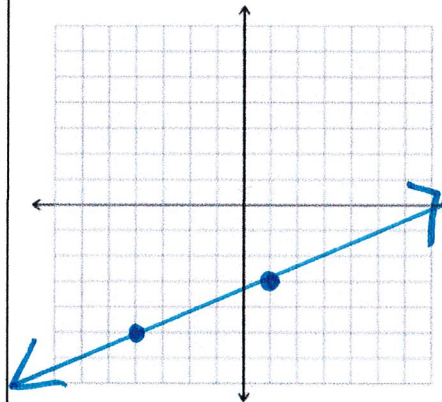
32. is the data in the table linear? If so, write an equation in point slope and slope intercept form.

x	y
-10	-5
2-2	19
5	40
11	58

33. is the data in the table linear? If so, write an equation in point slope and slope intercept form.

Speed posted over speed limit	Fine \$
10	75
12	95
15	125
19	165

37. write an equation in point slope form



For #39-53, write an equation in A. point slope form, B. standard form using integers

39. (1, 4) (-1, 1)

40. (6, -3) (-2, -3)

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<p>45. (5, -3) (3, 4)</p>	<p>50. (5, 3) (4, 5)</p>
<p>62. Write an equation in slope intercept form: The line contains the point (1, 3) and has the same y-intercept as $y - 5 = 2(x - 1)$</p>	<p>65. what is the slope of the line $y - 8 = \frac{1}{2}(x + 2)$</p>
<p>66. Find the y-intercept of the line $y + 3 = 4(x + 3)$</p>	<p>67. what is the x-intercept of the line $y = 3x - 7$</p>
<p>68. when $y - 1 = -\frac{4}{5}(x - 3)$ is written in standard form using integers, what is the coefficient of x?</p>	<p>69. When $y = -\frac{5}{2}x + \frac{2}{3}$ is written in standard form using integers, what is the coefficient of y?</p>

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For #1-6, find the slope of the line parallel to the graph of each equation

1. $y = \frac{1}{2}x + 2.3$	2. $y = -\frac{2}{3}x - 1$	3. $y = x$
4. $y = 6$	5. $3x + 4y = 12$	6. $7x - y = 5$

Are the graphs of the lines parallel? Explain

7. $y = 4x + 12$ $-4x + 3y = 21$	8. $y = -\frac{3}{2}x + 2$ $3x + 2y = 8$	9. $y = \frac{1}{3}x + 3$ $x - 3y = 6$
10. $y = -\frac{1}{2}x + \frac{3}{2}$ $5x - 10y = 15$	11. $y = -3x$ $21x + 7y = 14$	12. $y = \frac{3}{4}x - 2$ $-3x + 4y = 8$

For # 13-18 write an equation for a line that is parallel to the given line through the given point

13. $y = 6x - 2$ (0, 0)	14. $y = -3x$ (3, 0)	15. $y = -2x + 3$ (-3, 5)
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314-317

16. $y = -\frac{7}{2}x + 6$ (-4, -6)	17. $y = 0.5x - 8$ (8, -5)	18. $y = -\frac{2}{3}x + 12$ (5, -3)
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<p>74. which equation has as its graph a line parallel to the graph $-2x - 4y = 3$?</p> <p>F. $y = -\frac{1}{2}x + 5$ G. $y = 2x - 6$ H. $y = -2x + 4$ I. $y = \frac{1}{2}x - 2$</p>	<p>76. suppose the line through (x, 6) and (1,2) is parallel to the graph of $2x + y = 3$. Find the value of x. Show your work.</p>
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Compare the equation in column A with the equation in column B. Choose the best answer.

- A. The quantity in column A is greater
- B. The quantity in column b is greater
- C. The two quantities are equal
- D. The relationship cannot be determined from the information given

	Column A	Column B
77.	The slope of $y = -5x - 1$	The slope of $10x + 2y = -2$
78.	The product of the slopes of $y = -\frac{4}{3}x + 5$ and $3x + 4y = 12$	-1
79.	The slope of $6y = 3x + 10$	2

Pgs 314-317 day 2

For #19-24, find the slope of the line perpendicular to the graph of each equation

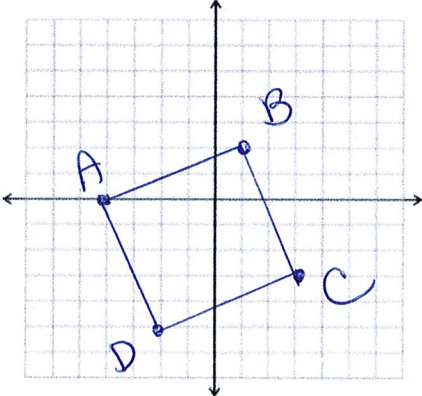
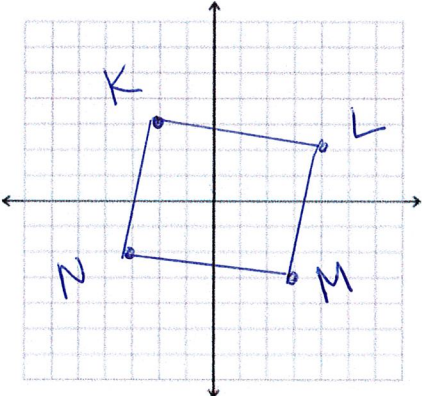
19. $y = 2x$	20. $y = -3x$	21. $y = \frac{7}{5}x - 2$
22. $y = -\frac{x}{5} - 7$	23. $2x + 3y = 5$	24. $y = -8$

For #25-30 write an equation for a line that is perpendicular to the given line through the given point.

25. $y = 2x + 7$ (0, 0)	26. $y = x - 3$ (4, 6)	27. $y = -\frac{1}{3}x + 2$ (4, 2)
28. $3x + 5y = 7$ (-1, 2)	29. $-10x + 8y = 3$ (15, 12)	30. $4x - 2y = 9$ (8, -2)

Tell whether the lines are parallel, perpendicular, or neither. Explain.

32. $y = 4x + \frac{3}{4}$ $y = -\frac{1}{4}x + 4$	33. $y = \frac{2}{3}x - 6$ $y = \frac{2}{3}x + 6$	34. $y = -x + 5$ $y = x + 5$
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<p>35. $y = 5x$ $y = -5x + 7$</p>	<p>36. $y = \frac{x}{3} - 4$ $y = \frac{1}{3}x + 2$</p>	<p>37. $x = 2$ $y = 9$</p>
<p>38. $2x + y = 2$ $2x + y = 5$</p>	<p>39. $3x - 5y = 3$ $-5x + 3y = 8$</p>	
<p>40. $4x - 3y = 36$ $3x + 4y = 20$</p>	<p>41. $2x - 5y = 15$ $2x + 5y = 10$</p>	
<p>63. use slopes to determine if the figure drawn is a rectangle.</p> 	<p>64. use slopes to determine if the figure drawn is a rectangle.</p> 	
<p>68. determine if the lines are parallel, perpendicular, or neither. $ax - by = c$ $-ax + by = d$</p>	<p>69. determine if the lines are parallel, perpendicular, or neither $ax + by = c$ $bx - ay = d$</p>	