

4. Ron, Tim and John worked a total of 95 hours. Tim worked 15 less than twice the number of hours that Ron did. John worked 10 more than twice the number of hours that Ron did. How many hours did they each work?
5. Find the sides of a rectangle if the length is 6 less than three times the width and the perimeter of the rectangle is 84 inches.
6. Find the 3 sides of a **triangle** if the second side is 10 more than the first side and the third side is 3 more than twice the first side. The perimeter of the triangle is 73 feet.

7. Find the 3 **angles** of a triangle if the second angle is 15 more than than twice first angle and the third angle is 45 more than the **second** angle.

8. Find two complementary angles if the second angle is 12 less than twice the first angle.

9. Find 2 supplementary angles if the second angle is 60 less than twice the first angle.

10. The sum of three angles is 93 degrees. Angle B is 2 degrees less than twice as large as Angle A. Angle C is twice as large as Angle A. Find the measure of all 3 angles.

Chapter 9

Complete the tables shown below for each of the equations listed.

11. $y = -4x$

X	Y
0	
2	
6	

12. $y = \frac{3}{4}x + 2$

X	Y
0	
4	
-4	

13. $y = \frac{-2}{5}x - 4$

X	Y
0	
5	
-5	

14. $y = -x + 4$

X	Y
-2	
3	
5	

15. $y = 2x - 3$

X	Y
-3	
0	
2	

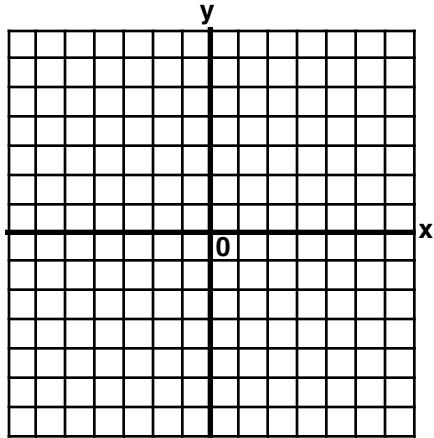
16. $y = \frac{-1}{2}x - 3$

X	Y
0	
-2	
4	

Pick your own x values and then find the y values for the x values you selected. Then graph the line.

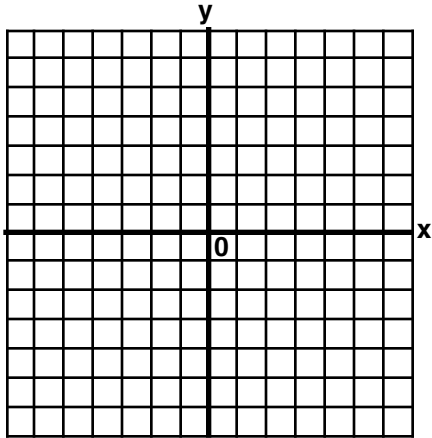
17. $y = 2x - 4$

X	Y
0	



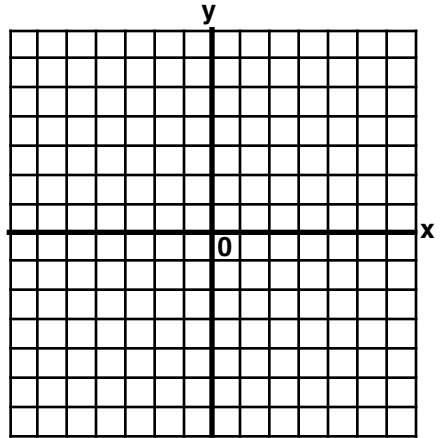
18. $y = -3x + 1$

X	Y
0	



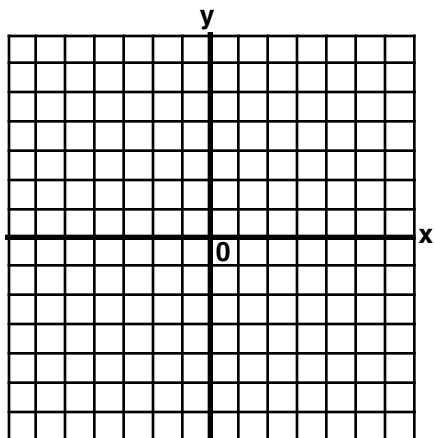
19. $y = -x$

X	Y
0	



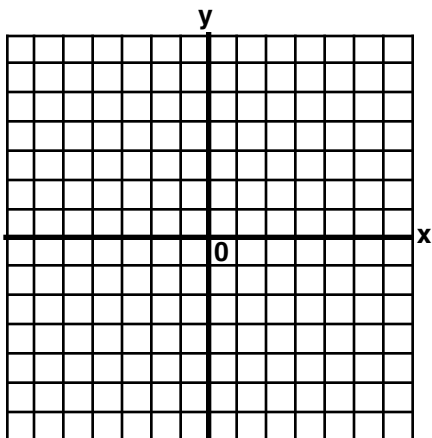
20. $y = \frac{-1}{2}x + 2$

X	Y
0	



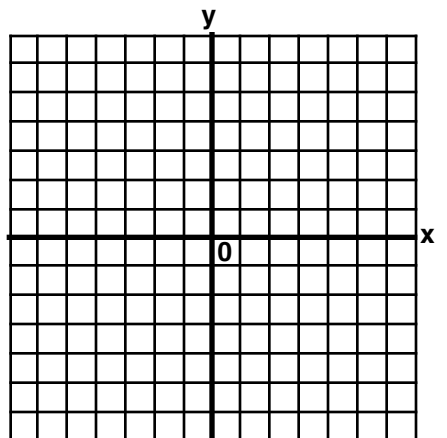
21. $y = \frac{2}{3}x + 2$

X	Y
0	



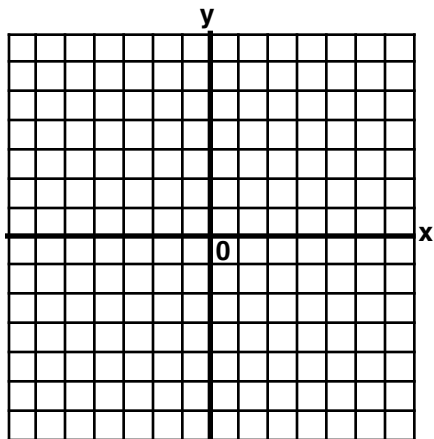
22. $y = \frac{-1}{2}x + 4$

X	Y
0	



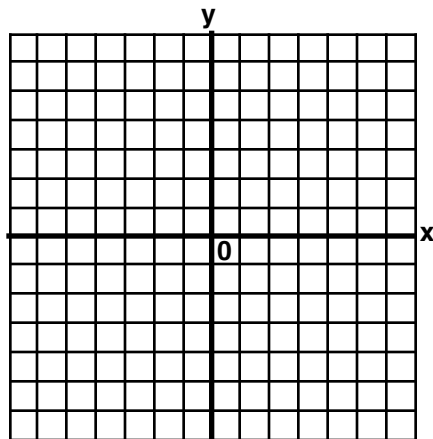
23. $y = \frac{2}{3}x$

X	Y
0	



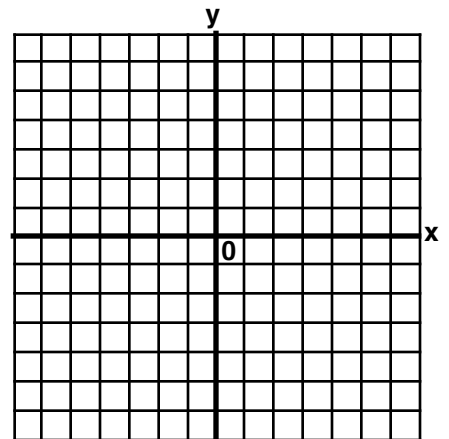
24. $y = \frac{-1}{2}x$

X	Y
0	



25. $y = 3x$

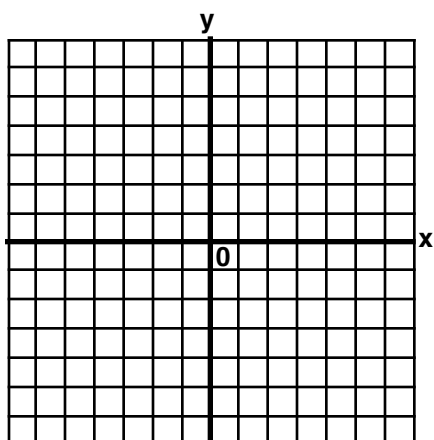
X	Y
0	



Find the x and y intercepts and then graph the line that the equation represents.

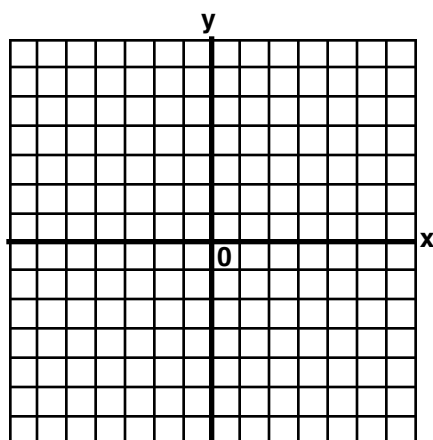
26. $-3x - 5y = 15$

X	Y
0	
	0



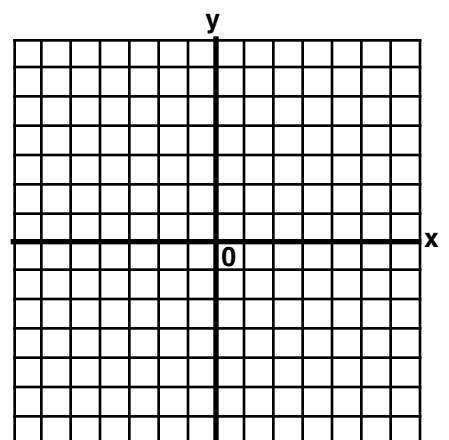
27. $4x - 3y = 12$

X	Y
0	
	0



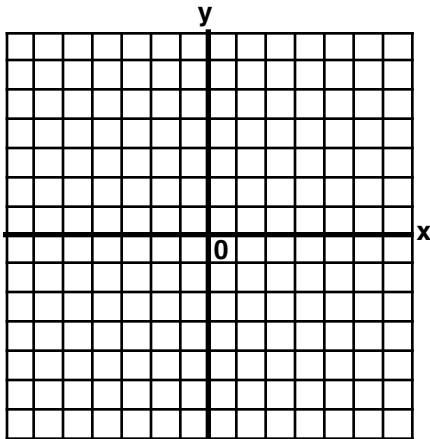
28. $-4x + y = 4$

X	Y
0	
	0

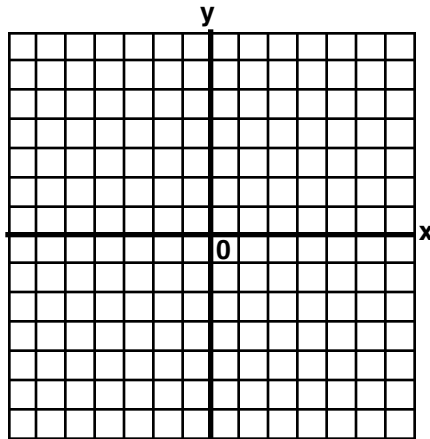


Graph the line that the equation represents.

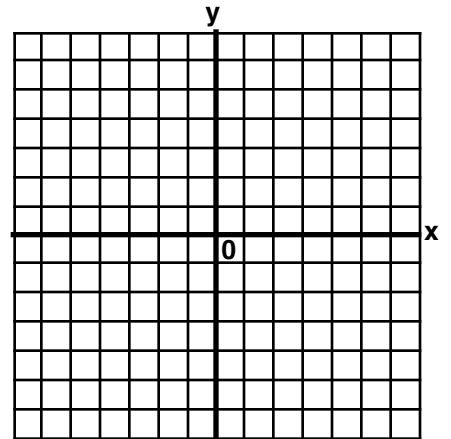
29. $y = 5$



30. $x = -4$



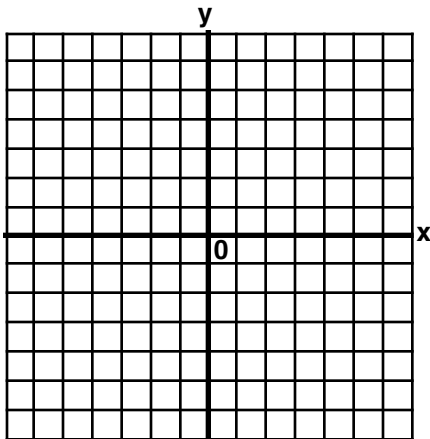
31. $x = 2$



Graph the **points** given and the **line** they determine. Then find the **slope** of each line.

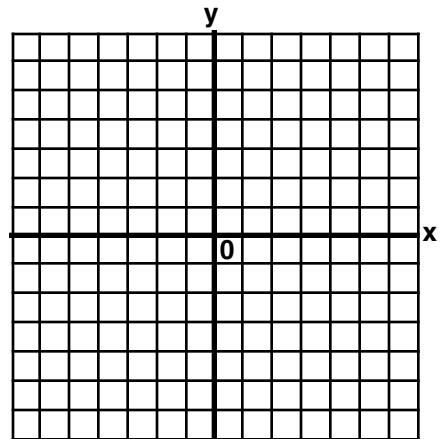
32. $(-1, 0)$ $(2, 1)$

$m = \text{_____}$



33. $(0, 4)$ $(5, 0)$

$m = \text{_____}$



Find the slope of the line through the given points if $m = \frac{y_2 - (y_1)}{x_2 - (x_1)}$

Reduce the fraction if possible (no mixed numbers)

34. (3, 7) and (1, 4)

35. (-2, 9) and (2, 1)

36. (-3, 0) and (6, 4)

37. (6, 0) and (1, 2)

38. (5, 7) and (5, 1)

39. (2, -3) and (-2, 3)

40. (-1, 9) and (2, 1)

41. (-2, 9) and (2, 9)

Chapter 9 – 10 Review Answers:

1. walks 12 miles, runs 18 miles
2. Tom worked 8 hours and Ann Marie worked 27 hours
3. Tom sold 20 magazines, Bill sold 8 magazines, Joe sold 37 magazines
4. Ron worked 20 hours, Tom worked 25 hours and John worked 50 hours
5. Width = 12 inches, Length = 30 inches
6. $S_1 = 15$ ft. , $S_2 = 25$ ft. , $S_3 = 33$ ft.
7. $\angle 1 = 21$ deg. , $\angle 2 = 57$ deg. , $\angle 3 = 102$ deg.
8. $\angle 1 = 34$ deg. , $\angle 2 = 56$ deg.
9. $\angle 1 = 80$ deg. , $\angle 2 = 100$ deg.
10. $\angle A = 19$ deg. , $\angle B = 36$ deg. , $\angle C = 38$ deg

11. $y = -4x$

X	Y
0	0
2	-8
6	-24

12. $y = \frac{3}{4}x + 2$

X	Y
0	2
4	5
-4	-1

13. $y = \frac{-2}{5}x - 4$

X	Y
0	-4
5	-6
-5	-2

14. $y = -x + 4$

X	Y
-2	6
3	1
5	-1

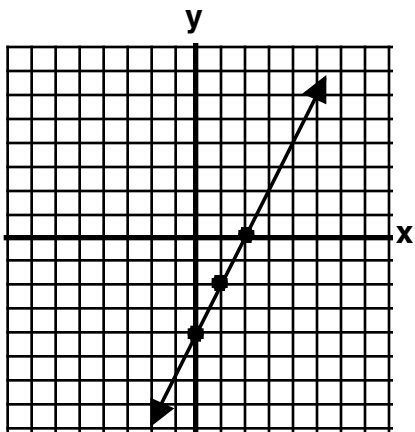
15. $y = 2x - 3$

X	Y
-3	-9
0	-3
2	1

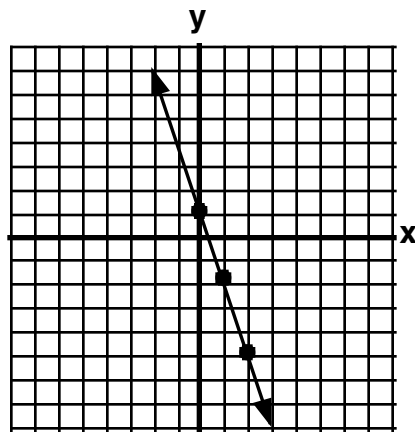
16. $y = \frac{-1}{2}x - 3$

X	Y
0	-3
-2	-2
4	-5

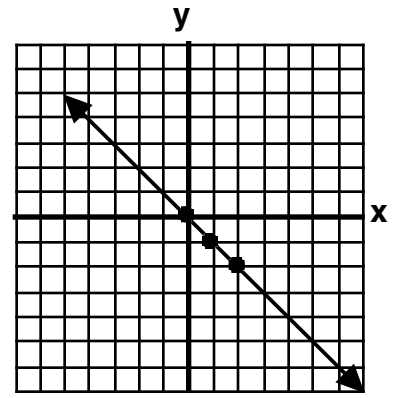
17. $y = 2x - 4$



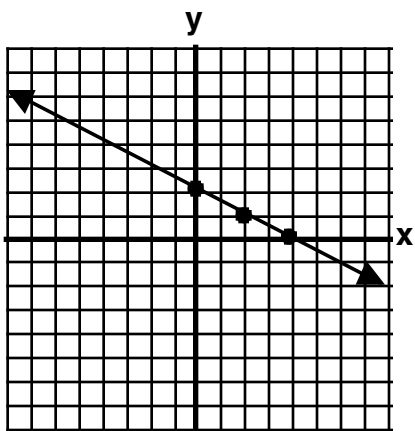
18. $y = -3x + 1$



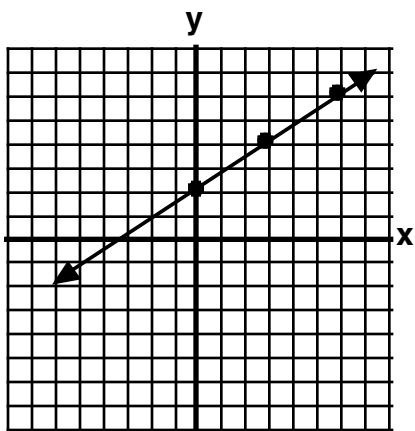
19. $y = -x$



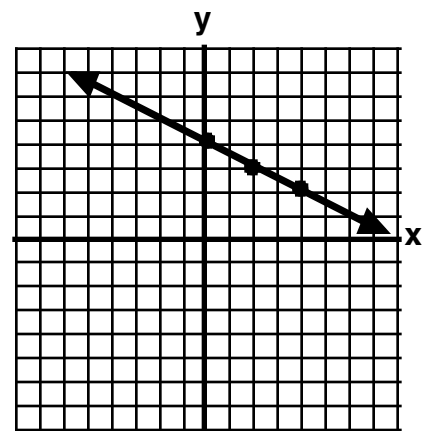
20. $y = \frac{-1}{2}x + 2$



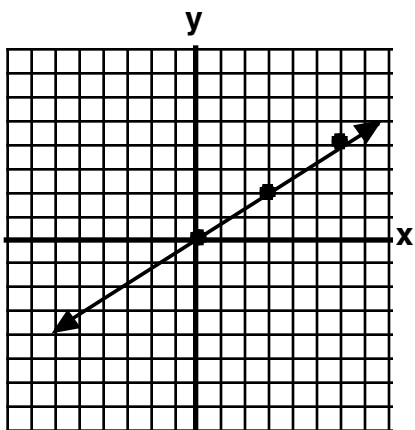
21. $y = \frac{2}{3}x + 2$



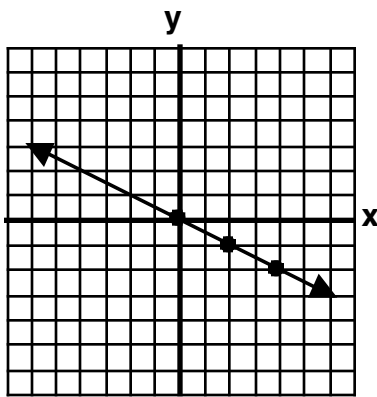
22. $y = \frac{-1}{2}x + 4$



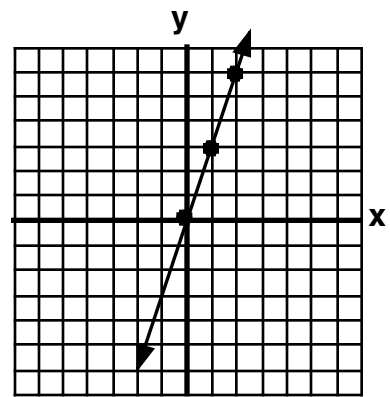
23. $y = \frac{2}{3}x$



24. $y = \frac{-1}{2}x$

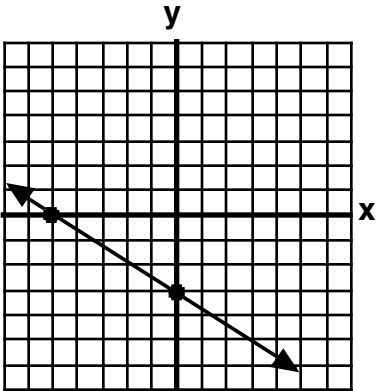


25. $y = 3x$



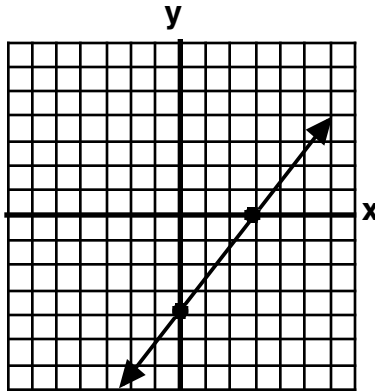
26.

X	Y
0	-3
-5	0



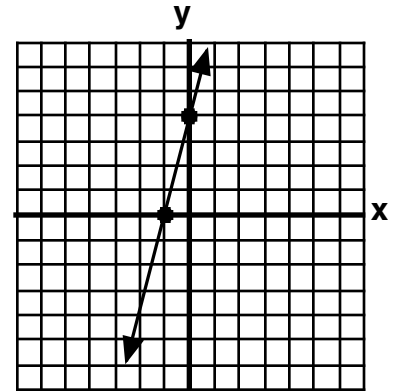
27.

X	Y
0	-4
3	0

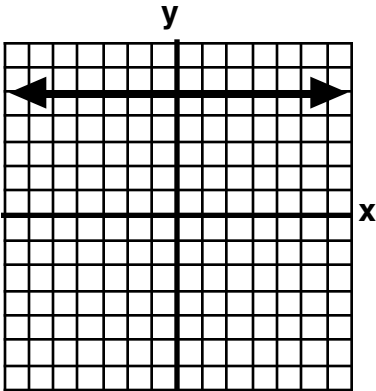


28.

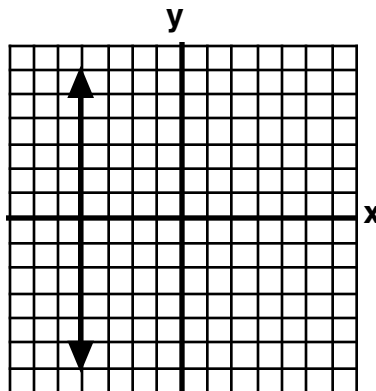
X	Y
0	4
-1	0



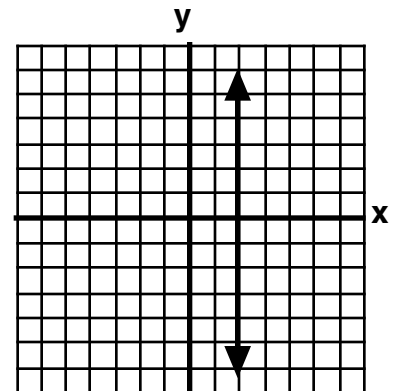
29. $y = 5$



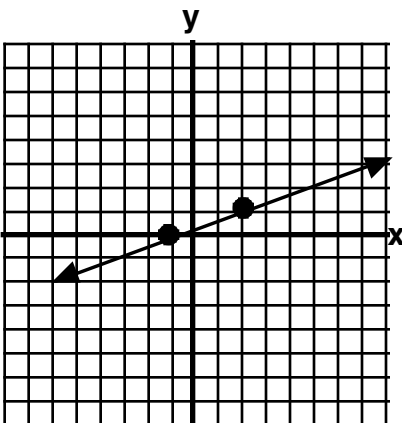
30. $x = -4$



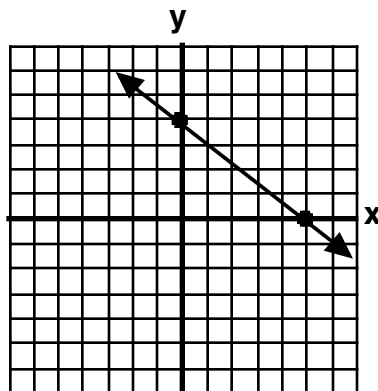
31. $x = 2$



32. $m = \frac{1}{3}$



33. $m = -\frac{4}{5}$



34. $m = \frac{3}{2}$

35. $m = -2$

36. $m = \frac{4}{9}$

37. $m = \frac{2}{-5} = \frac{-2}{5}$

38. m is und

39. $m = \frac{3}{-2} = \frac{-3}{2}$

40. $m = \frac{-8}{3}$

41. $m = 0$