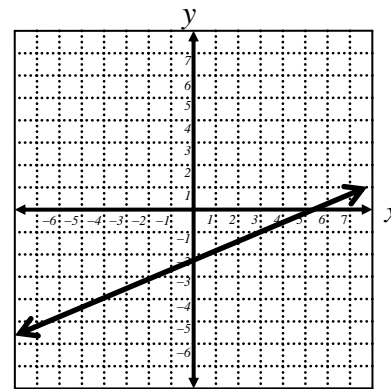
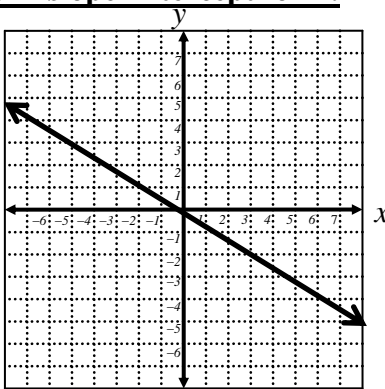
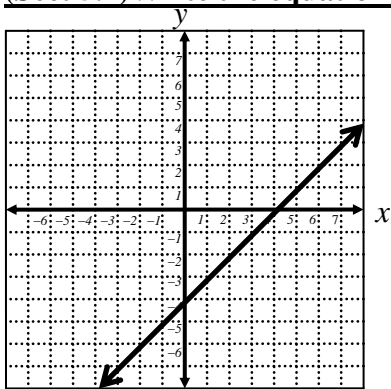


(Sect 5.2) Write the equation of the line in slope–intercept form.



1) Equation: _____ 2) Equation: _____ 3) Equation: _____

(Sect 5.2) Write the equation of the line for the given tables in slope–intercept form.

x	y
2	3
4	0
6	-3
8	-6

x	y
-2	-14
-1	-9
0	-4
1	1

x	y
-15	14
-5	6
5	2
15	-10

4) Equation: _____ 5) Equation: _____ 6) Equation: _____

(Sect 5.2) Write the equation of the line in slope–intercept form given information.

- | | | |
|--|--|--|
| 7) Slope is 5 and y -intercept is $(0, -7)$ | 8) Slope is $2/5$ and y -intercept is $(0, -2)$ | 9) Slope is $-1/2$ and y -intercept is $(0, 0)$ |
| 10) Slope is 3 and point is at $(-2, -8)$ | 11) Slope is -4 and the point is at $(1, 1)$ | 12) Slope is at -6 and the point is at $(-1, 3)$ |
| 13) Slope is at zero and through the point of $(2, 4)$ | 14) Slope is undefined and through the point of $(-1, -5)$ | 15) Passes through point $(-3, 2)$ and $(6, -1)$ |

(Sect 5.5) Write the equation of the line passing through the two given points.

16) (2, -5) and (-1, 1)

17) (-1, 7) and (5, -3)

18) (1, -2) and (-4, -2)

19) (-2, 1) and (-2, -4)

(Sect 5.5) Application.

20) Paul opens a savings account. At the end of each month, Paul is going to deposit more money into this account. After 3 months he has a total of \$800 and after 7 months he has a total of \$1,400.

a) If Paul deposits the same amount each time, write a linear equation (in slope–intercept form) that can represent the total amount of money he has after x months.

b) Describe what the slope means. Describe what the y –intercept means.

c) How much money will Paul have after 5 months?

d) After how many months will Paul have more than \$2,000?

(Sect 5.6) Determine whether the lines are parallel, perpendicular, or neither.

21)
$$\begin{cases} 3x + 2y = 1 \\ 6x + 4y = 9 \end{cases}$$

22)
$$\begin{cases} y = \frac{1}{4}x + 9 \\ y = 4x - 9 \end{cases}$$

23)
$$\begin{cases} \frac{1}{8}x + y = 5 \\ -8x + y = 2 \end{cases}$$

(Sect 5.6) Write an equation of the line with the given information.

24) Parallel to $y = \frac{2}{3}x - 1$ and passing through the point (6, 2)

25) Parallel to $y = 1$ and passing through the point (4, -2)

26) Perpendicular to $y = \frac{3}{4}x - 1$ and passing through the point (3, -1)

27) Perpendicular to $x = -1$ and passing through the point (1, 5)