Worksheet 4.2 – Graphing Linear Equations – Textbook pages 210-213

LEVEL 1

Check if the point is a solution to the equation. Show your work.

1) 5x - 3y = 7 (5, 6) 2) y = 5 (5, 2) 3) 4y - 6x = 0 (-2, -3)

Find two different ordered pairs that are solutions to the equation.

4)
$$y = 4x + 6$$
 5) $y = \frac{3}{5}x + 4$ 6) $y = 3$

LEVEL 2

Rewrite the equation in function form. Show your work.

7)
$$-7x + y = 1$$

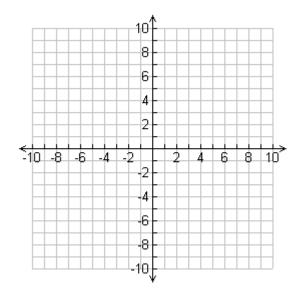
8) $-6x - 9y = 0$
9) $-4x - 2y = -1$

LEVEL 3

Use a table of values to graph the equation.

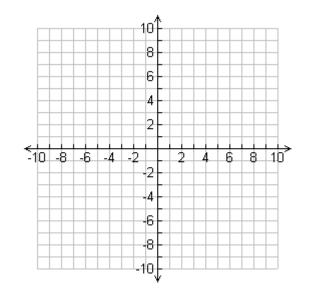
10)

X	y = 2x + 3	у	(x, y)



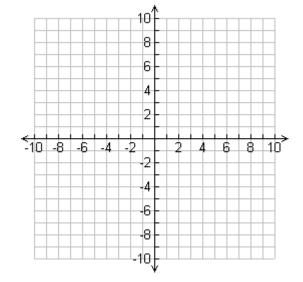
1	1)

x	$y = \frac{1}{2}x + 4$	у	(x, y)



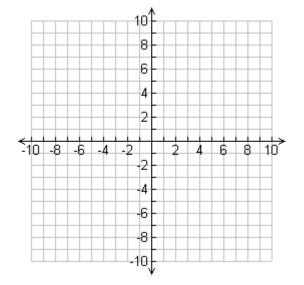
12)

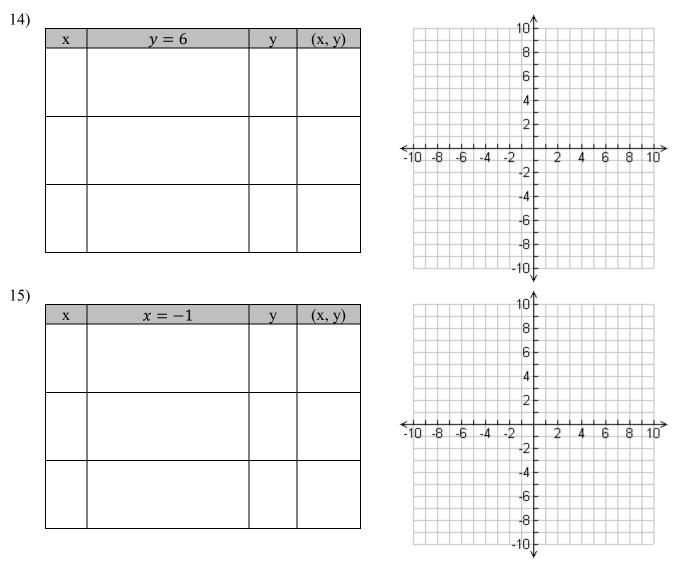
х	$y = \frac{1}{3}x - 3$	у	(x, y)



13)

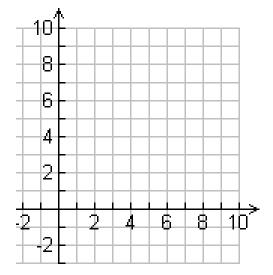
X	y = 3(x+1)	у	(x, y)





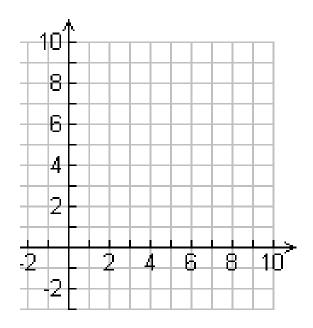
LEVEL 4

- 16) You earn \$15 an hour mowing lawns and \$10 an hour washing windows. You want to make \$400 in one week. An algebraic model for your earnings is 15x + 10y = 400, where x is the number of hours you mow lawns and y is the number of hours you wash windows.
 - a) What are your earnings for 3 hours of mowing and 5 hours of window washing? Show your work.
 - b) Solve the equation for *y*. Show your work.



c) Sketch a graph of the equation to the right.

- 17) You drive 300 miles from home. You drive towards home at a constant rate of 60 mph. The distance you are from home is d = 300 60t.
 - a) Sketch a graph for t = 0 through 4 below.



b) How long will it take you to get home?