# Creating linear equations from tables worksheet

I'm not robot!

Without a calculator, graph each of the following on the graph paper provided.
1. f(x) = 2x - 7

x	f(x)

2. f(x) = -3x + 4

x	f(x)
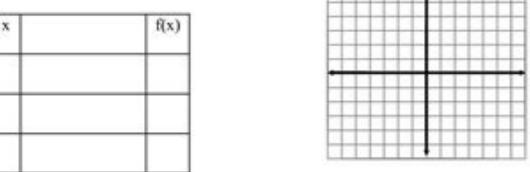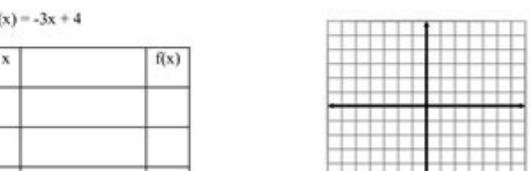
Solve each equation for y and then graph each equation.
3. 6x + 7 = -14y

x	y
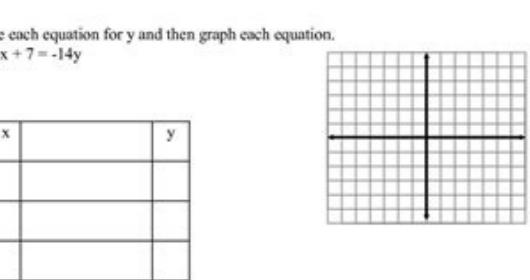
4. 8x - y = 16
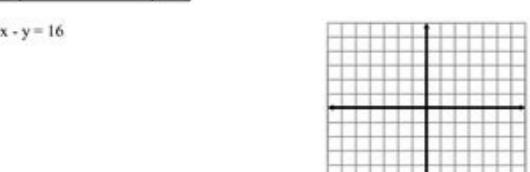
Graphing Linear Equations from a Table

Complete the tables for each equation and then plot the linear equation on the graph. Label each by writing the equation on the graphed line. Then create "stained glass" art by coloring in the different spaces.

1.)

x	y = 2x+5	(x, y)
1	y = 2+5(1)	1, 7
2	y = 2+5(2)	2, 9
3	y = 2+5(3)	3, 11

2.)

x	y = 2x-4	(x, y)
1	y = 2-4(1)	
2	y = 2-4(2)	
3	y = 2-4(3)	

3.)

x	y = -2x+5	(x, y)
1	y = -2+5(1)	
2	y = -2+5(2)	
3	y = -2+5(3)	

4.)

x	y = -2x - 4	(x, y)
1	y = -2-4(1)	
2	y = -2-4(2)	
3	y = -2-4(3)	

5.)

x = 8	(x, y)
x = 8	(8,0)
x = 8	(8,1)
x = 8	(8,2)

6.)

x = -8	(x, y)
x = -8	(-8,0)
x = -8	(-8,1)
x = -8	(-8,2)

7.)

y = 8	(x, y)
y = 8	(0,8)
y = 8	(1,8)
y = 8	(2,8)

8.)

y = -8	(x, y)
y = -8	(0,-8)
y = -8	(1,-8)
y = -8	(2,-8)

9.) What do the graphed lines in #1 and #2 have in common?
The 2nd and 3rd

10.) What is the slope of the line in #6? #7?
Slope : (-8,0) , (0,8) , (-8,1) , (1,8),
(-8,2) , (2,8)
{Range :(0, 8, 1, 8, 2, 8)}

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42. $y = \frac{1}{2}x$

43. No; the slope of the line is undefined, the equation is $x = 3$, which is not in slope-intercept form.

44. Find the slope by substituting the values: $\frac{b + m - b}{1 - 0} = m$. The y-intercept is when $x = 0$, so the y-intercept is b. If you substitute $(-1, b - m)$ into the equation $y = mx + b$, you get $b - m = -m + b$ which is a true statement.

Problem Solving

45. a. $C = 44m + 48$
   b. $312

46. $C = 3.99e + 1.49$; $33.41

47. $C = 3h + 30$; $42

48. a. $a = 0.0037e + 3$
   b. dependent variable: a, independent variable: e
   c. Substitute 2 for e to get approximately 3.

49. a.

x (years since 1970)	y (km²)
0	5.2
10	4.1
20	3.0
30	1.9

b.
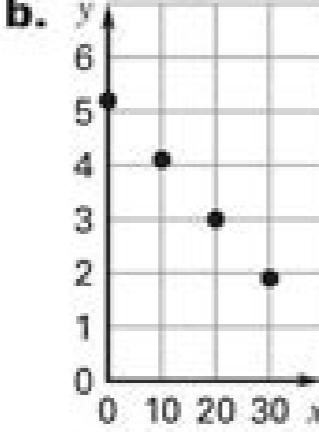
The area of the glaciers changed -1.1 square kilometers between every 10 year interval.

c. $y = -0.11x + 5.2$; -0.11 km²

50. a. 81 million gal
   b. $y = 130,000,000h$
   c. $0 \leq h \leq 3$; water is only released for 3 hours after 10 A.M.

51. a. $t = 0.7d + 2$ **b.** 16 min

52. a. $d = \frac{7}{1000}e + 400$
   b. $d \text{ ft} = \frac{7}{1000} \cdot e \text{ ft} + 400 \text{ ft}$
   c. 424.5 ft

Straight Line Graphs.

For each of the problems below use the equation to complete the table of values.
Then, plot the points to draw its graph.

$y = x + 3$

x	-3	-2	-1	0	1	2
y						

$y = 2x + 1$

x	-3	-2	-1	0	1	2
y						

$y = 2x - 3$

x	-2	-1	0	1	2	3
y						

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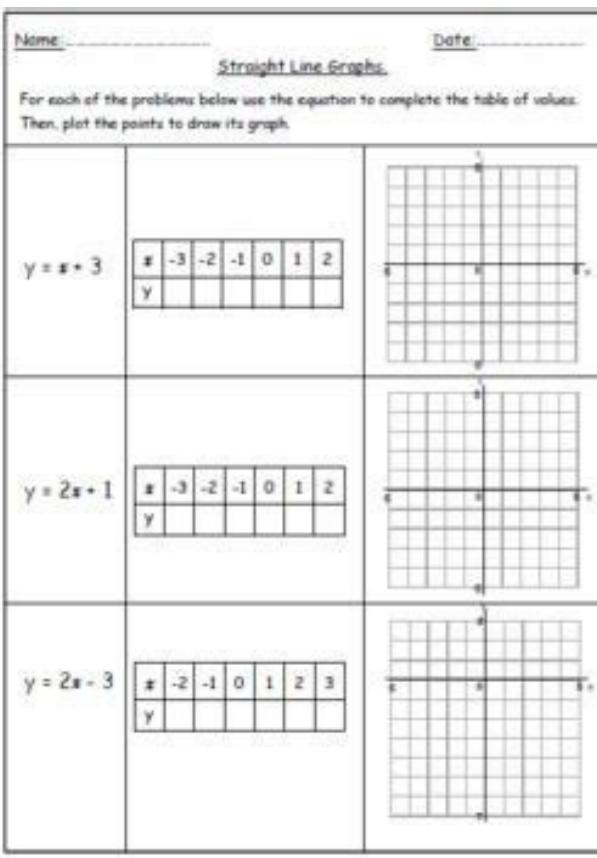
1 What is an equation of the line that passes through the point (4,−6) and has a slope of −3?
(1) $y = -3x + 6$ (3) $y = -3x + 10$
(2) $y = -3x - 6$ (4) $y = -3x + 14$

2 What is an equation of the line that passes through the point (3,−1) and has a slope of 2?
(1) $y = 2x + 5$ (3) $y = 2x - 4$
(2) $y = 2x - 1$ (4) $y = 2x - 7$

3 An equation of the line that has a slope of 3 and a y-intercept of −2 is
(1) $x = 3y - 2$ (3) $y = -x$
(2) $y = 3x - 2$ (4) $y = -2x + 3$

4 Which equation represents the line whose slope is 2 and whose y-intercept is 6?
(1) $y = 2x + 6$ (3) $2y + 6x = 0$
(2) $y = 6x + 2$ (4) $y + 2x = 6$

5 If point (-1,0) is on the line whose equation is $y = 2x + b$, what is the value of b?
(1) 1 (3) 3
(2) 2 (4) 0

6 What is an equation of the line that passes through the points (3,−3) and (−3,−3)?
(1) $y = 3$ (3) $y = -3$
(2) $x = -3$ (4) $x = y$

7 What is an equation for the line that passes through the coordinates (2,0) and (0,3)?
(1) $y = -\frac{3}{2}x + 3$ (3) $y = -\frac{2}{3}x + 2$
(2) $y = -\frac{3}{2}x - 3$ (4) $y = -\frac{2}{3}x - 2$

8 Write an equation that represents the line that passes through the points (5, 4) and (-5, 0).

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Write an equation in slope-intercept form to represent this situation. Detailed Answer Key Problem 1 :The table shows the temperature of a fish tank during an experiment. Write the appropriate linear equation to find the temperature at any time. Solution : Step 1 : Notice that the change in the temperature is the same for each increase of 1 hour in time. So, the relationship is linear.Step 2 : Let "x" stand for time and "y" stand for temperature. Choose any two points in the table to find the slope :For example, let us choose (0, 82) and (1, 80).Use the slope formula. m = (y2 - y1) / (x2 - x1)Substitute : (x1, y1) = (0, 82)(x2, y2) = (1, 80)Then, m = (80 - 82) / (1 - 0)m = -2 / 1m = -2Step 3 : Find the y-intercept using the slope and any point from the table.Slope-intercept form equation of a line :y = mx + bSubstitute m = -2, and (x, y) = (0, 82).82 = -2(0) + b82 = 0 + b82 = bStep 4 : Now, substitute m = -2 and b = 82 in slope-intercept form equation of a line.y = mx + by = -2x + 82Problem 2 :Elizabeth's cell phone plan lets her choose how many minutes are included each month. The table shows the plan's monthly cost y for a given number of included minutes x. Write an equation in slope-intercept form to represent the situation. Solution : Step 1 : Notice that the change in cost is the same for each increase of 100 minutes. 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So, the relationship is linear.Step 2 : Choose any two points in the form (x, y), from the table to find the slope :For example, let us choose (4, 550) and (6, 700).Use the slope formula. m = (y2 - y1) / (x2 - x1)Substitute : (x1, y1) = (4, 550)(x2, y2) = (6, 700)Then, m = (700 - 550) / (6 - 4)m = 150 / 2m = 75Step 3 : Find the y-intercept using the slope and any point from the table.Slope-intercept form equation of a line :y = mx + bSubstitute m = 75, and (x, y) = (4, 550).550 = 75(4) + b550 = 300 + b250 = bStep 4 : Now, substitute m = 75 and b = 250 in slope-intercept form equation of a line.y = mx + by = 75x + 250 Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com We can use the information from a table to write the linear equation that represents a given situation without drawing the graph.Example 1 : The table shows the temperature of a fish tank during an experiment. Write the appropriate linear equation to find the temperature at any time. Solution : Step 1 : Notice that the change in the temperature is the same for each increase of 1 hour in time. So, the relationship is linear.Step 2 : Let "x" stand for time and "y" stand for temperature. 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