

Functions and Graphing

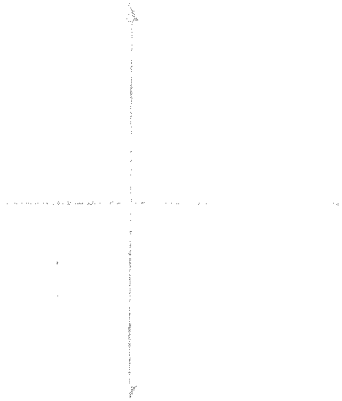
Chapter 7 Review (Day Two)

Name _____

Graph the following equations.

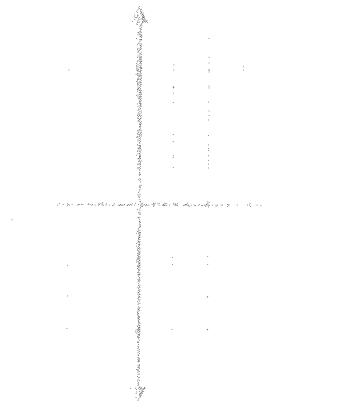
1) $y = -2x$

x	y



2) $y = -x - 1$

x	y



3) Of the equations you've graphed above, which have linear relationships? How do you know?

Simplify the following expressions.

4) $4 - 8b + 9b - 3$

5) $4(w + 6) - 10$

Solve the equation.

6) $-12 = w + 5$

7) $-7.1m = -46.15$

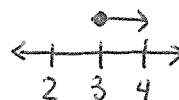
8) $\frac{x}{-2} = 9$

9) $\frac{c}{5} + 60 = 10$

Answers for the back side:

10) $50 + 3p = 605$, $p = 185$ puzzles

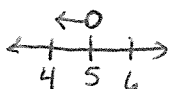
12) $s \geq 3$,



14) $y = \frac{x}{2}$

11) $12x - 8 = -32$, $x = -2$

13) $t < 5$,



15) $y = -2x$

10) The science club is selling puzzles to raise money. The supplier charges a one-time fee of \$50 for each order and \$3 for each puzzle. Write and solve an equation for the number of puzzles the science club can purchase if their budget is \$605.

Write an equation and solve.

11) 8 less than the product of 12 and x is -32.

Write an inequality for the situation written below. Then graph it.

12) There were at least 3 snow days that year.

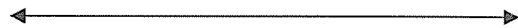
131) Todd has less than 5 close friends.

Inequality: _____
(letter - symbol - number)

Inequality: _____
(letter - symbol - number)

Graph:

Graph:



Write a function rule for the input-output table.

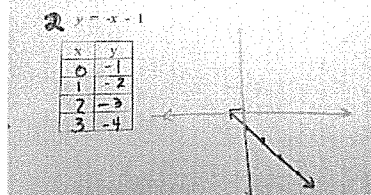
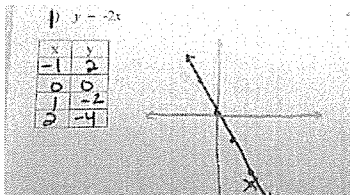
14) $y =$ _____

15) $y =$ _____

Input x	Output y
12	6
14	7
16	8
18	9

Input x	Output y
0	0
2	-4
4	-8
6	-12

Answers for the front side:



- 3) Both graphs have linear relationships because they are straight lines.
- 4) $b + 1$
- 5) $4w + 14$
- 6) $w = -17$
- 7) $m = 6.5$
- 8) $x = -18$
- 9) $c = -250$