Warm up back of p 13

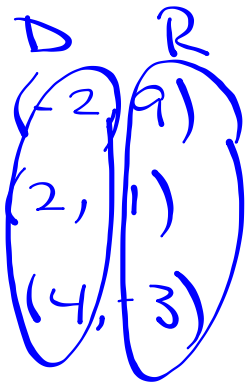
Find the range (y) values given each function and domain (x).

$y = x - 5$; domain = {4, 6, 8}

x	x-5	y
4	4-5	-1
6	6-5	1
8	8-5	3

$y = -2x + 5$; domain = {-2, 2, 4}

x	-2x+5	y
-2	-2(-2)+5	9
2	-2(2)+5	1
4	-2(4)+5	-3



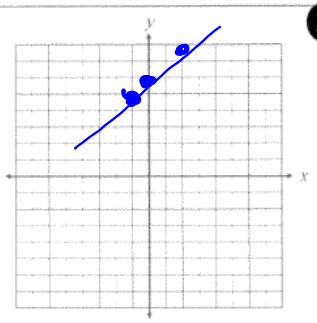
GRAPHING LINEAR EQUATIONS

{Using a Table!}

Directions: Complete each table, then graph the equation.

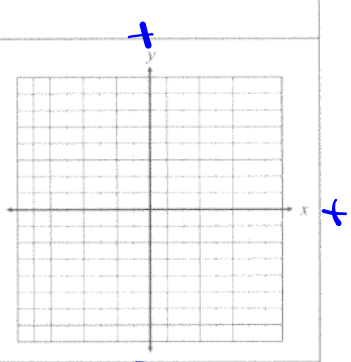
1 $y = x + 6$

x	y
-1	5
0	6
2	8
4	



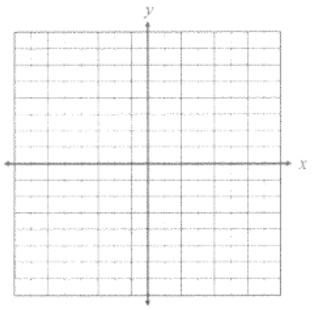
2 $y = -x$

x	y
-5	
-2	
0	
3	



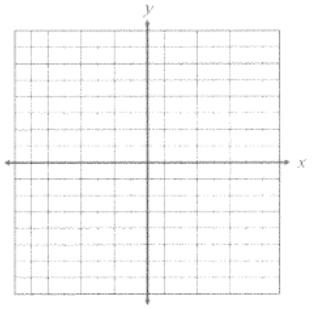
3 $y = -4x$

x	y
-2	
-1	
0	
2	



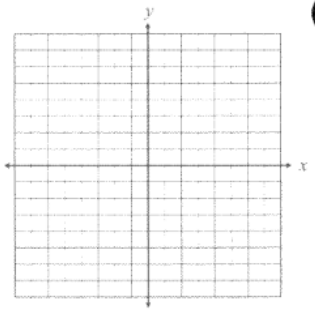
4 $y = 2x - 4$

x	y
-2	
3	
5	
6	



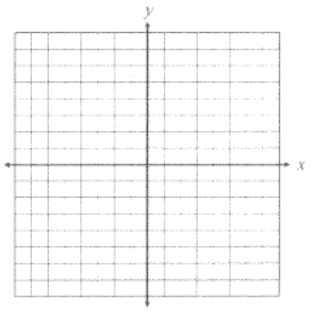
5 $y = -3x + 5$

x	y
-1	
1	
3	
4	



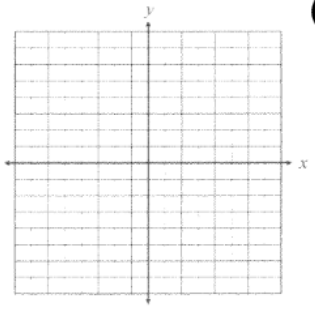
6 $y = -x + 9$

x	y
1	
3	
5	
8	



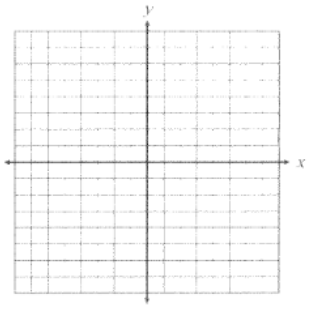
7 $y = \frac{x}{2} + 7$

x	y
-8	
-6	
-2	
0	

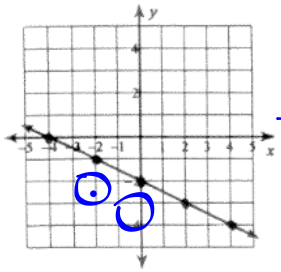


8 $y = -\frac{1}{4}x + 2$

x	y
-8	
-4	
0	
4	



6)



x	y
-4	0 ✓
-2	-1 ✓
0	-2 ✓

A) $y = -\frac{1}{2}x - 2$

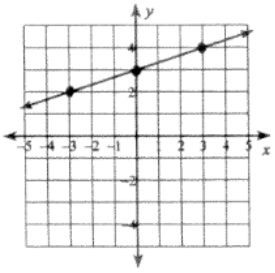
B) $y = \frac{5}{2}x - 2$

C) $y = \frac{1}{2}x - 2$

D) $y = -2x + \frac{5}{2}$

$\frac{5}{2}(-4) - 2 = 12$

7)



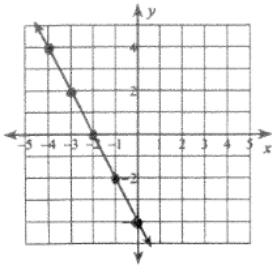
A) $y = -\frac{5}{3}x + 3$

B) $y = -\frac{4}{3}x + 3$

C) $y = \frac{1}{3}x + 3$

D) $y = 3x - \frac{5}{3}$

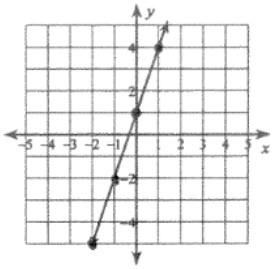
8)



A) $y = -3x - 4$ B) $y = -2x - 4$

C) $y = 3x - 4$ D) $y = 2x - 4$

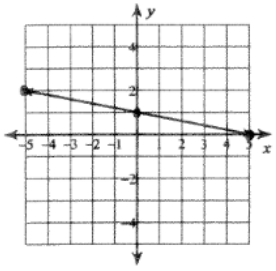
9)



A) $y = x + 3$ B) $y = 3x + 1$

C) $y = 2x + 3$ D) $y = -3x + 1$

10)



A) $y = \frac{3}{5}x + 1$

B) $y = \frac{2}{5}x + 1$

C) $y = \frac{1}{5}x + 1$

D) $y = -\frac{1}{5}x + 1$

ODD ONLY CW GRADE

Which function rule matches the table below?

1.

x	y
-2	4
0	2
1	1
3	-1

$y = 2x - 1$ $y = 2x + 1$

$y = -x + 2$ $y = x + 2$

2.

x	y
0	0
-3	-12
1	4
-1	-4

$y = 4x$ $y = 4$

$y = -\frac{1}{5}x + \frac{4}{5}$ $y = \frac{1}{5}x + \frac{4}{5}$

3.

x	y
1	2
2	0
3	-2
4	-4

$y = 4x - 2$ $y = -2x + 4$

$y = 2x + 4$ $y = -4x - 2$

4.

x	y
4	5
-1	-5
2	1
1	-1

$y = 2x - 3$ $y = -3x + 5$

$y = 5x - 3$ $y = -5x - 3$

5.

x	y
5	-5
3	-1
2	1
4	-3

$y = 3x + 5$ $y = -2x + 5$

$y = -3x + 5$ $y = 2x + 5$

6.

x	y
0	-1
-1	-4
2	5
1	2

$y = -3x - 1$ $y = -4x - 3$

$y = 3x - 1$ $y = -x - 1$

7.

x	y
-6	-2
3	1
-3	-1
6	2

$y = \frac{1}{3}x + 1$ $y = \frac{1}{3}x$

$y = x + 4$ $y = -x + 4$

8.

x	y
0	-5
-4	3
-1	-3
-3	1

$y = -2x - 5$ $y = 2x - 5$

$y = 3x - 5$ $y = -3x - 5$

9.

x	y
2	-4
0	-3
-2	-2
-4	-1

$y = -\frac{1}{2}x - 3$ $y = 5x - 3$

$y = -x - 3$ $y = x - 3$

10.

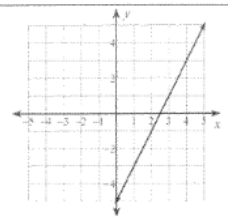
x	y
-3	3
0	4
3	5
-6	2

$y = 4x + \frac{1}{3}$ $y = \frac{1}{3}x - 4$

$y = -4x + 4$ $y = \frac{1}{3}x + 4$

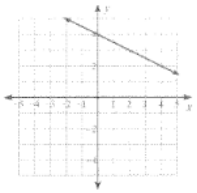
Which rule is associated with the graph below?

11.



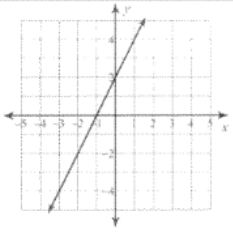
A. Twice x minus 5
B. The product of -5 and x subtract 4
C. -4 times x minus 5
D. 4 taken away from the product of 5 and x

12.



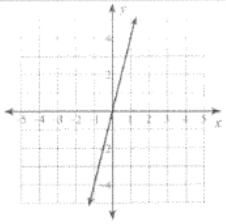
A. one-half of x plus 4
B. 4 added to negative one-half of x
C. the product of 4 and x plus 2 and a half
D. two and a half times x plus 4

13.



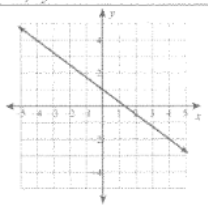
A) $y = -2x + 5$ B) $y = 2x + 2$
C) $y = 2x + 5$ D) $y = 5x + 2$

14.



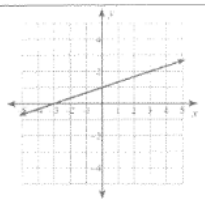
A) $y = -5x$ B) $y = -4x$
C) $y = 4x$ D) $y = 4$

15.



A) $y = -\frac{3}{4}x + 1$ B) $y = -\frac{3}{4}x - 1$
C) $y = x - \frac{3}{4}$ D) $y = -x - \frac{3}{4}$

16.

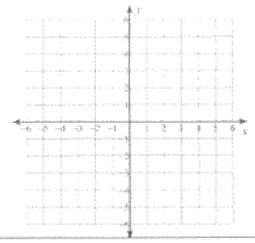


A) $y = -\frac{1}{3}x + 1$ B) $y = \frac{1}{3}x + 1$
C) $y = -\frac{2}{3}x + 1$ D) $y = \frac{4}{3}x + 1$

Complete a table of values and graph the line.

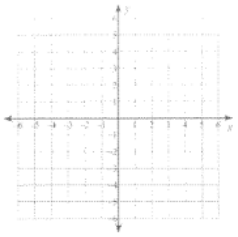
17. $y = -\frac{5}{2}x + 5$

x	y
-2	
0	
2	
4	



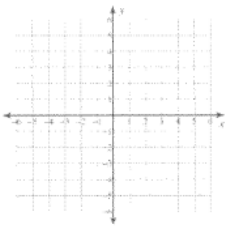
18. $y = 4x - 4$

x	y
-1	
0	
1	
2	



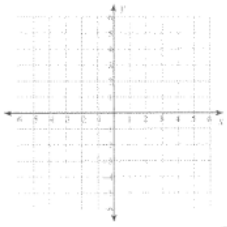
19. $y = -\frac{1}{2}x + 4$

x	y
-2	
0	
2	
4	



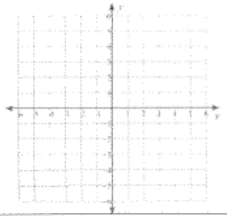
20. $y = -\frac{1}{4}x + 5$

x	y
-4	
0	
4	
8	



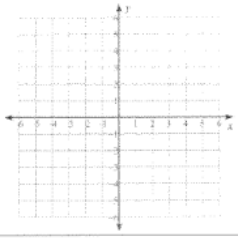
21. $y = \frac{3}{4}x - 2$

x	y
-4	
0	
4	
8	



22. $y = -3x + 2$

x	y
-1	
0	
1	
2	



8th Grade IXL

Z.1, Z.2, Z.3

Why Are There No Wal-Marts In a War Zone?

For each equation, only two of the given ordered pairs are solutions. Circle the number-letter pair next to each solution. Then write the letter in the matching numbered box at the bottom of the page.

1. $y = 3x - 1$

- 16 · E $(4, 11)$
- 18 · L $(3, 5)$
- 7 · A $(-5, -16)$
- 12 · D $(-2, 7)$

2. $4x - y = 5$

- 20 · R $(4, 10)$
- 13 · F $(-2, -9)$
- 18 · O $(1, -1)$
- 2 · H $(-3, -17)$

3. $-3x + 2y = 8$

- 12 · L $(-6, -5)$
- 23 · C $(-4, -1)$
- 28 · N $(-2, 2)$
- 20 · E $(2, 7)$

4. $2x + y = 3$

- 25 · V $(-4, -5)$
- 9 · R $\left(-\frac{3}{2}, 8\right)$
- 23 · A $(-1, 5)$
- 1 · T $\left(\frac{7}{2}, -4\right)$

5. $y = \frac{5}{2}x - 9$

- 3 · O $(-2, -11)$
- 26 · E $(0, -9)$
- 13 · L $(2, -4)$
- 11 · I $(4, 3)$

6. $-4x + 3y = -6$

- 9 · E $(-3, -6)$
- 19 · N $\left(-\frac{5}{4}, -1\right)$
- 4 · R $(5, -2)$
- 28 · S $\left(\frac{9}{4}, 1\right)$

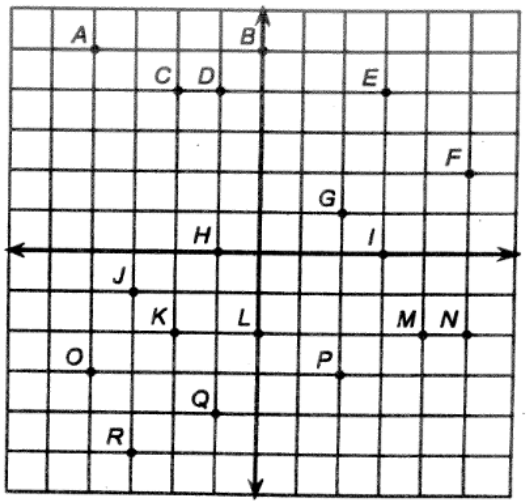
In Exercises 7-12, possible solutions are given as coordinate points that represent ordered pairs.

7. $2x + 3y = 7$

- 27 · Y N
- 3 · E G
- 8 · D J
- 25 · G A

8. $5x - 2y = -5$

- 6 · S E
- 4 · Y R
- 11 · A H
- 15 · W P



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

- 19 · M M
- 22 · N C
- 17 · R B
- 6 · H G

10. $-x + 4y = -8$

- 27 · T L
- 5 · S F
- 8 · V O
- 10 · F J

11. $y = x^2 - 5$

- 21 · N P
- 24 · L K
- 15 · B Q
- 22 · T E

12. $y = 2x^2 - 3x - 1$

- 10 · W I
- 17 · C D
- 24 · R G
- 21 · S R

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28