



Warm Up Grade 8
Test Oct. 12



- 1) Find the missing value for the ordered pairs of $y = -3x - 5$
(show work)

a) $x \quad y$
a) $(-2, \underline{\quad})$

$$y = -3x - 5$$

$$y = -3(-2) - 5$$

$$y = (+6) - 5$$

$$y = 1$$

$$(-2, 1)$$

b) $x \quad y$
b) $(\underline{\quad}, -38)$

$$y = -3x - 5$$

$$-38 = -3x - 5$$

$$-38^{+5} = -3x - 5^{+5}$$

$$-33 = -3x$$

$$\div (-3) \quad \div (-3)$$

$$11 = x$$

$$(11, -38)$$

Extra Practice 6

Lesson 6.6: Creating a Table of Values

1. Copy and complete each table of values.

a) $y = 3x + 7$

x	y
1	10
2	13
3	16
4	19
5	22

$x=1$
 $3(1)+7$
 $3+7$
 10
 $x=2$
 $3(2)+7$
 $6+7$
 13
 $x=3$
 $3(3)+7$
 $9+7$
 16

b) $y = 2x - 2$

x	y
1	0
2	2
3	4
4	6
5	8

$2x-2$
 $2(1)-2$
 $2-2$
 0
 $2x-2$
 $2(2)-2$
 $4-2$
 2
 $2x-2$
 $2(3)-2$
 $6-2$
 4

c) $y = -5x + 4$

x	y
1	-1
2	-6
3	-11
4	-16
5	-21

$-5x+4$
 $-5(1)+4$
 $-5+4$
 -1
 $-5x+4$
 $-5(2)+4$
 $-10+4$
 -6
 $-5x+4$
 $-5(3)+4$
 $-15+4$
 -11

2. Copy and complete each table of values.

a) $y = -x + 2$

x	y
-3	5
-2	4
-1	3
0	2
1	1
2	0
3	-1

$-(-)+2$
 $-(-3)+2$
 $3+2$
 5
 $-(-2)+2$
 $2+2$
 4
 $-(-1)+2$
 $1+2$
 3

b) $y = -4x - 5$

x	y
-3	7
-2	3
-1	-1
0	-5
1	-9
2	-13
3	-17

$-4x-5$
 $-4(-3)-5$
 $12-5$
 7
 $-4(-2)-5$
 $8-5$
 3
 $-4(-1)-5$
 $4-5$
 -1
 $-4(0)-5$
 $0-5$
 -5

c) $y = 5x + 8$

x	y
-3	-7
-2	-2
-1	3
0	8
1	13
2	18
3	23

$5(-3)+8$
 $-15+8$
 -7
 $5(-2)+8$
 $-10+8$
 -2
 $5(-1)+8$
 $-5+8$
 3

3. The equation of a linear relation is: $y = -7x + 10$

Some ordered pairs in the relation are: $(-1, 17), (0, 10), (1, \quad), (2, -4), (-11, (4, \quad))$

Find the missing numbers in the ordered pairs

$-7(1)+10$
 $-7+10$
 3
 $-7(-11)+10$
 $77+10$
 87
 $-7x+10$
 $-21 = -7x+10$
 $-21 = -7x$
 $-7 = -7$
 $3 = x$

4. The cost of parking at the airport is \$15 the first day, plus \$6 for each additional day. An equation for this relation is $C = 15 + 6a$, where a represents the number of additional days, and C represents the total cost of the parking.

- a) Use the equation to create a table of values.
- b) Hank parked for 14 additional days. How much did Hank spend on parking?
- c) Sentor spent \$207 on parking. How many rides additional days did he park?

a)

additional days	Cost
0	15
1	21
2	27
3	33
4	39
5	45
6	51

$C = 15 + 6a$
 $a = 14$
 $C = 15 + 6a$
 $= 15 + 6(14)$
 $= 15 + 84$
 $= 99$
 Hank spent \$99 on parking for 14 additional days

d) $C = 15 + 6a$
 $207 = 15 + 6a$
 $207 - 15 = 15 - 15 + 6a$
 $192 = 6a$
 $\frac{192}{6} = \frac{6a}{6}$
 $32 = a$

If Sentor spent \$207 on parking then he had 32 additional days.

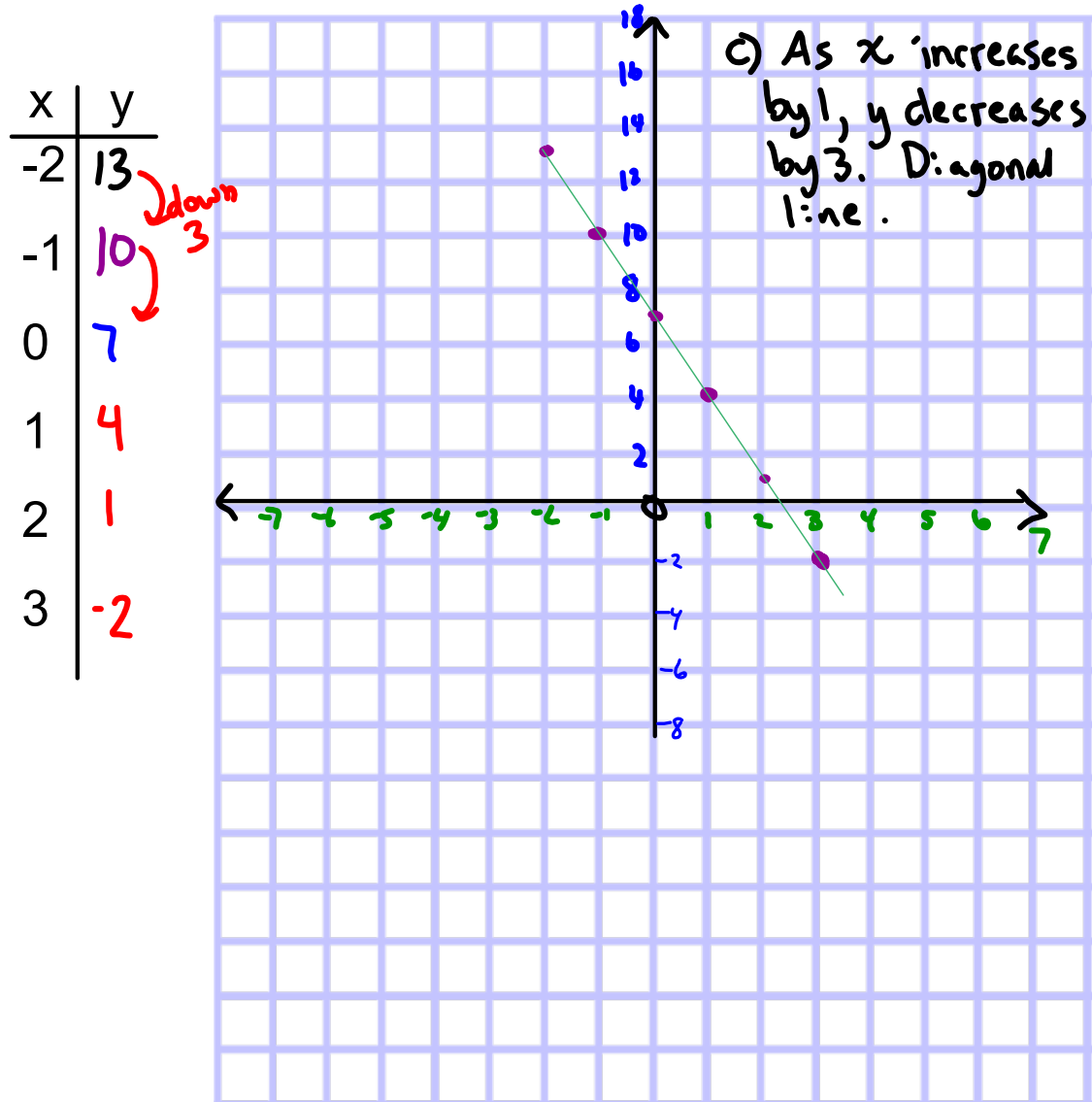
Ex 1)

a) Create a table of values

Graph $y = -3x + 7$

b) Graph the relation

c) Describe the relations



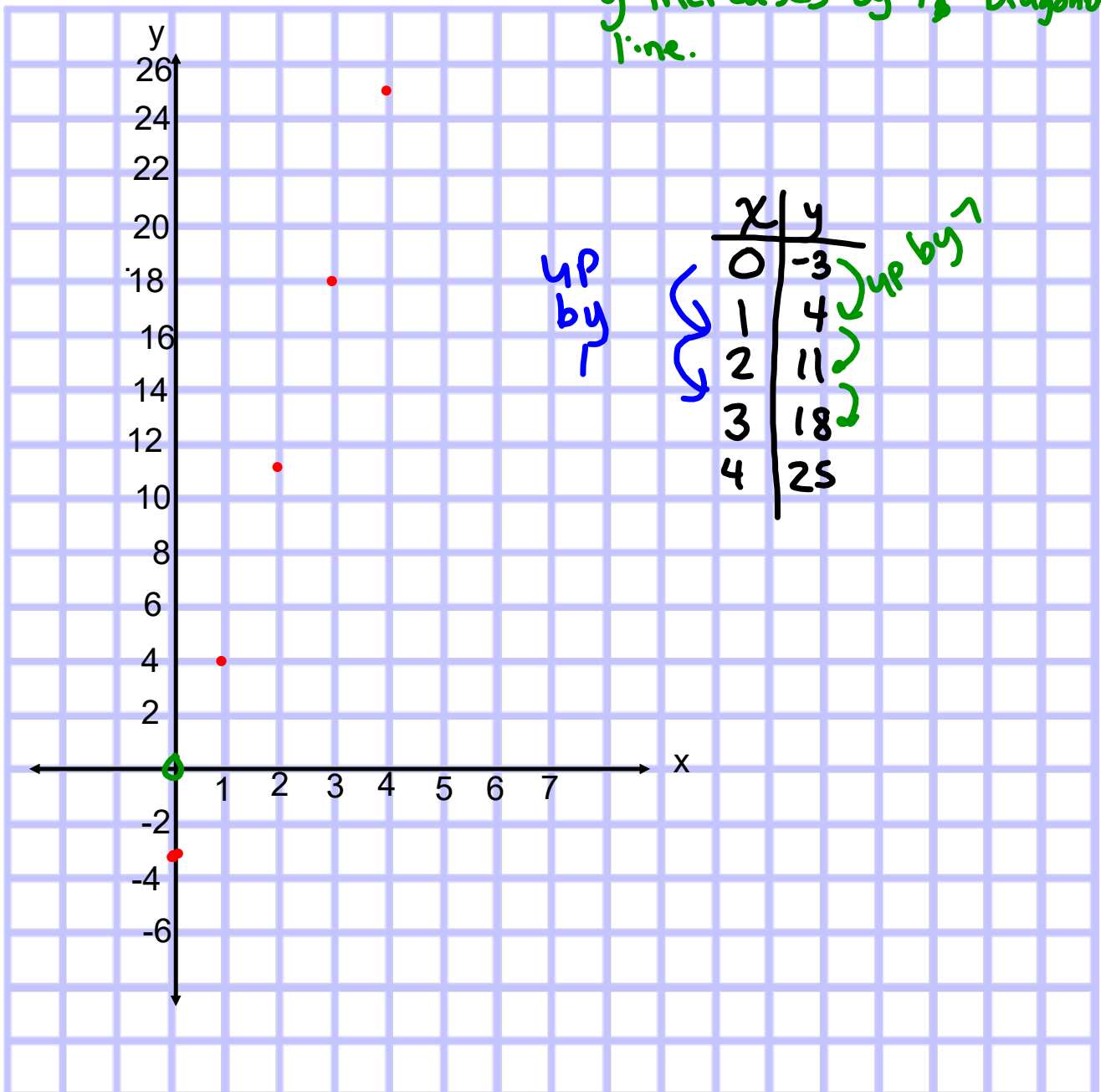
$$\begin{aligned}
 x &= -2 \\
 y &= -3x + 7 \\
 &= -3(-2) + 7 \\
 &= (+6) + 7 \\
 &= 13 \\
 &(-2, 13)
 \end{aligned}$$

$$\begin{aligned}
 x &= -1 \\
 y &= -3x + 7 \\
 &= -3(-1) + 7 \\
 &= (+3) + 7 \\
 &= 10 \\
 &(-1, 10)
 \end{aligned}$$

$$\begin{aligned}
 x &= 0 \\
 y &= -3x + 7 \\
 &= -3(0) + 7 \\
 &= 0 + 7 \\
 &= 7 \\
 &(0, 7)
 \end{aligned}$$

Describe the relationship between the variables in the graph $y = 7x - 3$.

As x increases by 1,
 y increases by 7, Diagonal
line.



Class/Homework

Test Oct. 12

Page 363

~~4~~, #5(~~a~~, ~~c~~, ~~e~~, ~~g~~), #6(~~a~~, ~~b~~, ~~c~~, ~~d~~), #7, #8, #9, #10

5a) $y = 2x$

x	y
0	0
1	2
2	4
3	
4	
5	

Part 2 Test Next Week

Oct. 12

Read graph
Solve system

$$8) \quad y = -6x - 5$$

$$a) \quad \left(\overset{x}{-3}, \overset{y}{13} \right)$$

$$\begin{aligned} y &= -6x - 5 \\ &= -6(-3) - 5 \\ &= 18 - 5 \\ y &= 13 \end{aligned}$$

$$b) \quad \left(\overset{x}{\quad}, \overset{y}{7} \right)$$
$$7 = -6x - 5 + 5$$

$$12 = -6x$$
$$\div -6 \quad \div -6$$

$$\boxed{-2 = x}$$

7)

x	y
0	3
1	11
2	19
3	27
4	35
5	—

Handwritten annotations: A red arrow labeled "4P1" points to the x-axis. A red arrow labeled "4P8" points to the y-value 3. A green arrow labeled "4P8" points to the y-value 11. A green arrow labeled "4P8" points to the y-value 19. A green arrow labeled "4P8" points to the y-value 27. A green arrow labeled "4P8" points to the y-value 35. A green arrow labeled "4P8" points to the empty space for x=5.