Lesson L1: Graphing Equations Using a Table of Values KEY

Why Was the Baby Cookie Sad?

Each row across has five boxes. Only three of them contain solutions of the equation at the beginning of that row. CIRCLE these three solutions. Notice the number-letter pair above each solution you have circled. Write the letter in the box at the bottom of the page that contains the matching number.

1	12-S	19-B	5-O	22-L	15-A
$3x + y = 7$	(2,1)	(3, −4)	(4, −5)	(0, 5)	(−1, 10)
2	24-F	9-R	2-I	17-K	19-S
$-2x + y = 4$	(−2, 1)	(0, 4)	(−3, −2)	(−1, 5)	(3,10)
3	22-O	8-E	20-P	24-G	6-M
$5x - 2y = 1$	(3, 7)	(−1, −3)	(2, −5)	(1, 2)	(−2, 4)
4	1-R	17-E	3-Y	11-A	20-O
$y = 4x - 1$	(2, 5)	(0, −1)	(−1, 6)	(−2, −9)	(1, 3)
5	6-T	23-E	18-R	13-V	3-S
$y = x^2$	(3, 9)	(−2, −4)	(−3, 9)	(5, 10)	(−1, 1)
6	4-B	13-A	23-N	7-A	1-H
$y = 2x^2 + 3$	(3, 12)	(1, 5)	(−1, 5)	(0, 6)	(−2, 11)
7	7-H	14-P	10-W	4-M	21-B
$-x + 7y = -8$	(1, −1)	(−7, −3)	(8, 0)	(−6, −2)	(−3, 1)
8	21-L	16-L	16-F	14-P	14-W
$2xy = 20$	(2, 5)	(−2, 5)	(−2, −5)	(−5, 2)	(−5, −2)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
H	I	S	M	O	T	H	E	R	W	A	S	A	W	A	F	E	R	S	O	L	O	N	G

OBJECTIVE 5–b: To determine whether a given ordered pair is a solution of an equation in two variables.

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What Did the Doctor Say After Examining Yunn Yunsberger?

Complete the table for each function. Find each ordered pair at the bottom of the page and write the corresponding letter above it. (Answers for Exercises 1–4 are to the left, and answers for Exercises 5–8 are to the right of the center line.)

1 $2x + y = 1$

x	y	
−1	3	A
−4	9	D
3	−5	O

2 $x - y = 5$

x	y	
7	2	I
1	−4	E
−2	−7	Y

3 $3x - y = -4$

x	y	
2	+10	U
−1	1	A
−3	−5	I

4 $x - 2y = 2$

x	y	
6	2	V
2	0	H
−4	−3	C

5 $-2x + 3y = 6$

x	y	
6	6	D
0	2	U
−3	0	E

6 $x + 4y = 12$

x	y	
8	1	T
0	3	N
−8	5	E

7 $x + y + 6 = 0$

x	y	
−5	−1	Y
2	−8	N
−8	2	C

8 $3x = 2y + 8$

x	y	
8	8	N
2	−1	S
−4	−10	H

Y	O	U		H	A	V	E		A	C	I	D		I	N		D	E		C	H	E	S	T		Y	U	N	N
(−2, −7)	(3, −5)	(2, 10)	(7, 8)	(2, 0)	(−1, 3)	(6, 2)	(1, −4)	(2, 4)	(−1, 1)	(−4, −3)	(−3, −5)	(−4, 9)	(6, 8)	(7, 2)	(8, 8)	(2, 3)	(6, 6)	(−8, 5)	(8, −2)	(−8, 2)	(−4, −10)	(−3, 0)	(2, −1)	(8, 1)	(−5, 3)	(−5, −1)	(0, 2)	(2, −8)	(0, 3)

Extending

OBJECTIVE 5–e: To find ordered pairs that satisfy a linear equation and use them to graph the equation (equations are not solved for y).

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OBJECTIVE 5–c: To find ordered pairs that satisfy a linear equation and use them to graph the equation (equations are solved for y).

Why Did Zorna Pour Ketchup on Her Brother's Hand?

Complete the table for each equation. Find each answer in the code key and notice the letter next to it. Write this letter in the box at the bottom of the page that contains the circled number in that row of the table.

1 $y = -2x$

x	y	
1	-2	(1)
4	-8	(2)
−5	10	(3)
3	-6	(4)

2 $y = 4 + 2x$

x	y	
3	10	(5)
−7	-10	(6)
1	6	(7)
−3	-2	(8)

3 $y = -3x + 1$

x	y	
3	-8	(9)
−3	10	(10)
4	-11	(11)
−2	7	(12)

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

x	y	
10	1	(13)
−2	-5	(14)
4	-2	(15)
−8	-8	(16)

5 $y = -x + 6$

x	y	
4	2	(17)
−1	7	(18)
6	0	(19)
0	6	(20)

6 $y = -\frac{3}{2}x - 2$

x	y	
4	-8	(21)
2	-5	(22)
0	-2	(23)
−2	1	(24)

7 $y = 7 - 3x$

x	y	
6	-11	(25)
1	4	(26)
0	7	(27)
−2	13	(28)

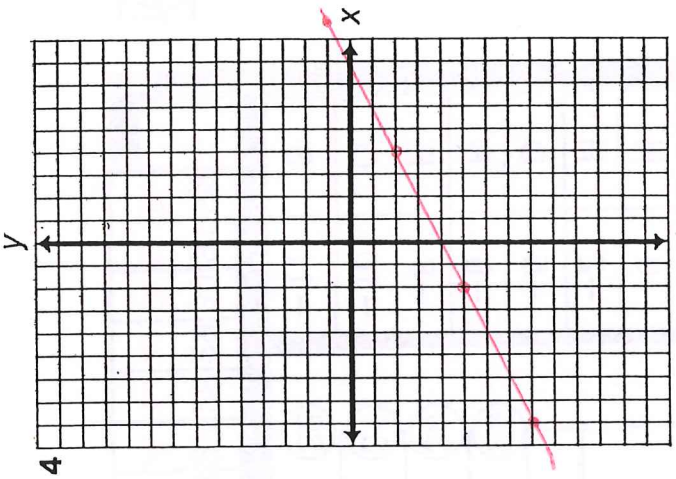
8 $y = 1 - x$

x	y	
−2	3	(29)
−9	10	(30)
9	-8	(31)
6	-5	(32)

CODE KEY	
13	L
10	R
7	A
6	T
4	P
3	M
2	W
1	I
0	N
−2	H
−5	D
−6	B
−8	E
−10	O
−11	S

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	29	30	31	32
H	E	R	B	R	O	T	H	E	R	S	A	I	D	H	E	W	A	N	T	E	D	H	I	S	P	A	L	M	R	E	D

KEY



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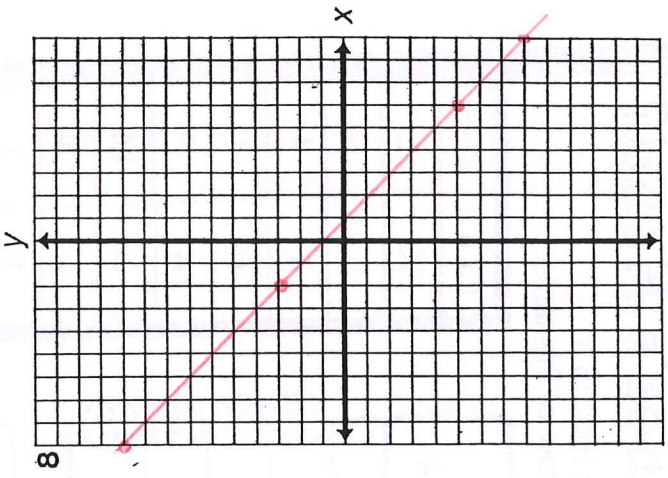

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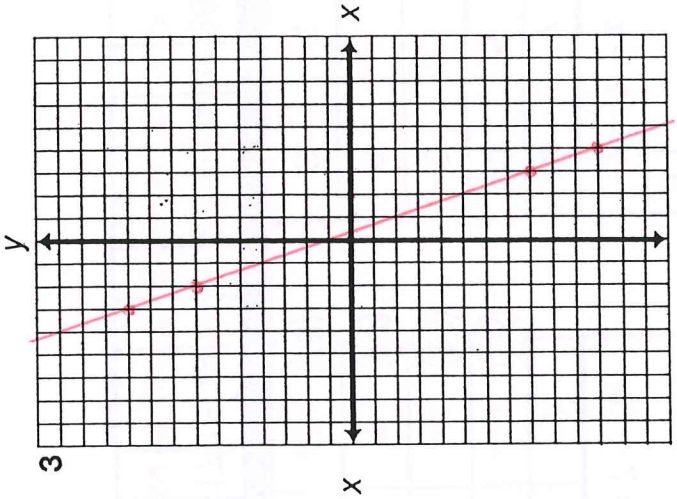

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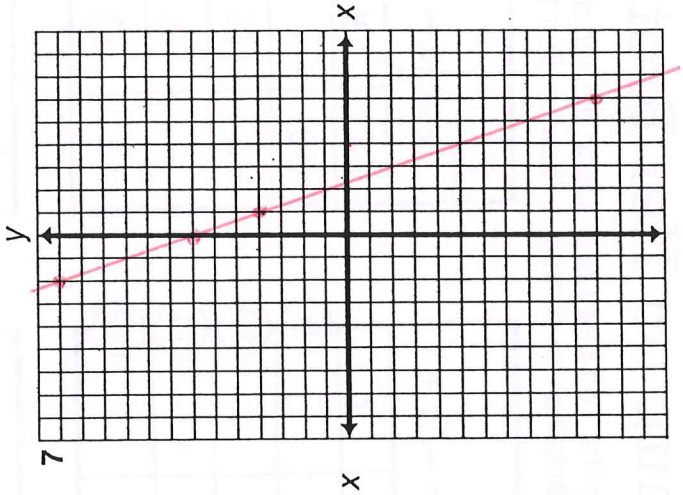

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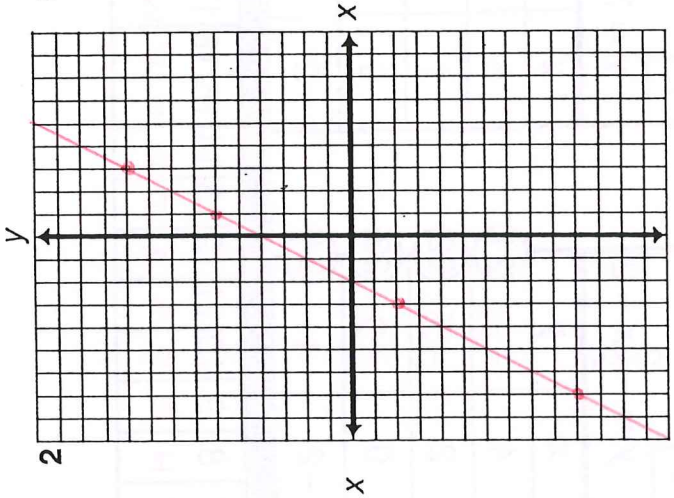

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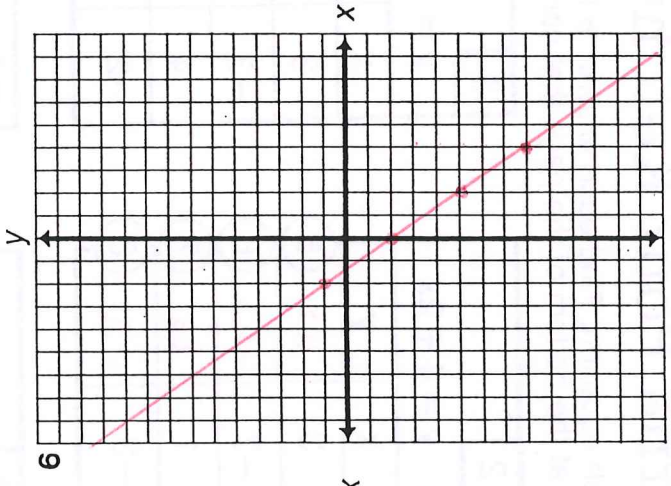

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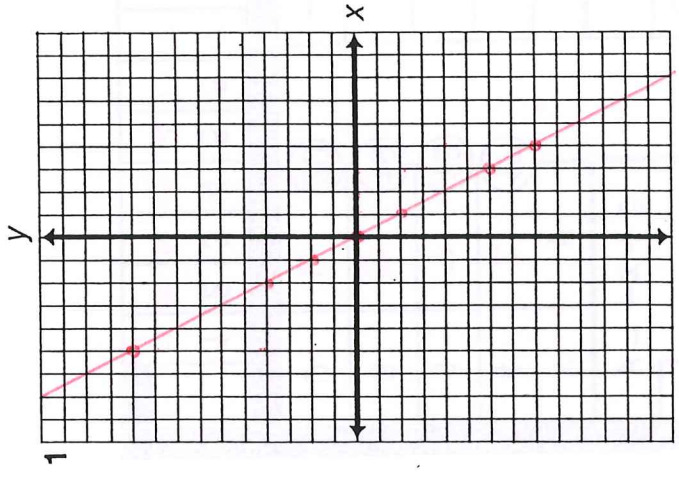

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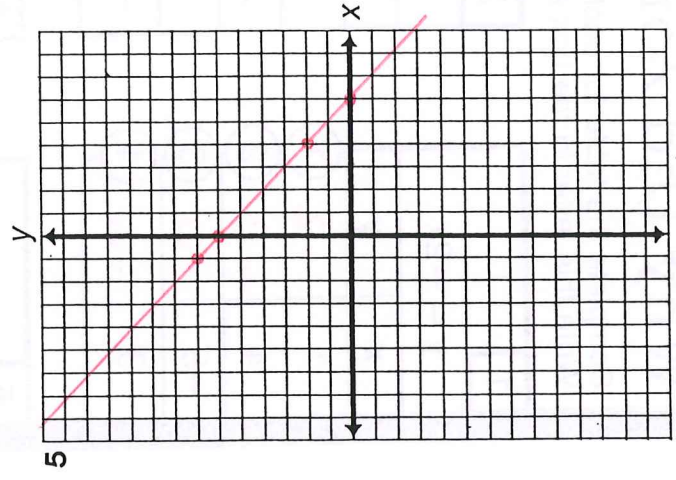

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