ALGEBRA I // MODULE 1

SEQUENCES – 1.1

1.1

READY, SET, GO! Name Period Date

READY

Identify which of the 3 possible numbers is the solution to the equation.

1. $3x + 7 = 13$ $(x = -2;\ x = 2;\ x = 5)$

2. $8 - 2b = -2$ $(b = -3;\ b = 0; b = 5)$

3. $5 + 4g + 8 = 1$ $(g = -3; g = -1; g = 2)$

4. $6t - 5 + 5t = 105$ $(t = 4; t = 7; t = 10)$

Determine the y-value of each ordered pair based on the given x-value.

5. $y = 6x - 15$ $(8,\ \ ), (-1,\ \ ), (5,\ \ )$

6. $y = -4x + 9$ $(-5,\ \ ), (2,\ \ ), (4,\ \ )$

7. $y = 2x - 1$ $(-4,\ \ ), (0,\ \ ), (7,\ \ )$

8. $y = -x + 9$ $(-9,\ \ ), (1,\ \ ), (5,\ \ )$

SET

Fill in the table. Then write a sentence explaining how you figured out the values to put in each cell.

9. You run a business making birdhouses. You spend $600 to start your business, and it costs you $5.00 to make each birdhouse.

# of birdhouses	1	2	3	4	5	6	7
Total cost to build							

Explanation:

10. You make a $15 payment on your loan of $500 at the end of each month.

# of months	1	2	3	4	5	6	7
Amount of money owed							

Explanation:

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11. You deposit $10 in a savings account at the end of each week.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

Explanation:

12. You are saving for a bike and can save $10 per week. You have $25 when you begin saving.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

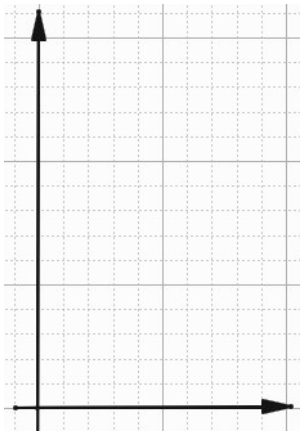
Explanation:

GO

Graph the ordered pairs from the tables on the given graphs.

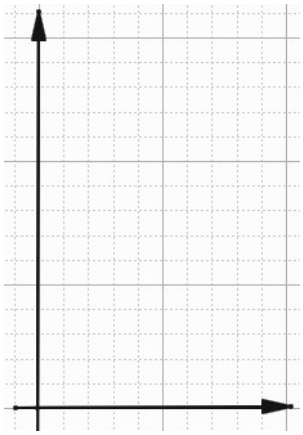
13. .

x	y
0	3
2	7
3	9
5	13



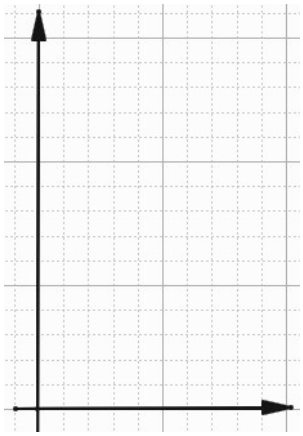
14. .

x	y
0	14
4	10
7	7
9	5



15. .

x	y
2	11
4	10
6	9
8	8



16. .

x	y
1	4
2	7
3	10
4	13