

Name: _____

Date: _____

Period: _____

Quadratic Relationships with Tables

Homework

Identify whether the table represents a linear or quadratic relationship. If Quadratic, find the:

- coordinates of the vertex
- equation of the axis of symmetry
- max/min
- domain and range

Is always R All real numbers

1.

x	y
-4	21
-3	14
-2	9
-1	6
0	5
1	6
2	9

Linear / Quadratic

a. $(0, 5)$

b. $X = 0$

c. minimum

d. $\mathbb{R}, \mathbb{R} \geq 5$

2.

x	y
-5	25
-4	11
-3	1
-2	-5
-1	-7
0	-5
1	1

Linear / Quadratic

a. $(-1, -7)$

b. $X = -1$

c. minimum

d. $\mathbb{R}, \mathbb{R} \geq -7$

3.

x	y
-4	-3
-3	-4
-2	-5
-1	-6
0	-7
1	-8
2	-9

Linear / Quadratic

a.

b. $y = -x - 7$

c.

d. $\mathbb{R}, \mathbb{R} \leq -7$

4.

x	f(x)
-2	-20
-1	-6
0	4
1	10
2	12
3	10
4	4

Linear / Quadratic

a. $(2, 12)$

b. $X = 2$

c. maximum

d. $\mathbb{R}, \mathbb{R} \leq 12$

5.

x	y
-4	-3
-3	-4
-2	-3
-1	0
0	5
1	12
2	21

Linear / Quadratic

a. $(-3, -4)$

b. $X = -3$

c. minimum

d. $\mathbb{R}, \mathbb{R} \geq -3$

6.

x	f(x)
0	9
1	12
2	13
3	12
4	9
5	4
6	-3

Linear / Quadratic

a. $(2, 13)$

b. $X = 2$

c. maximum

d. $\mathbb{R}, \mathbb{R} \leq 13$