

Name : _____

Score : _____ Date : _____

Comparing Linear, Exponential, and Quadratic Functions

For each table and graph, identify if it is linear, exponential, or quadratic

1

x	2	4	6	8	10
y	12	0	-4	0	12

2

x	-2	-1	0	1	2
y	1	2	4	8	16

3

x	-3	-2	-1	0	1
y	11	8	5	2	-1

4

x	-2	-1	0	1	2
y	-2	1	4	7	10

5

x	-2	-1	0	1	2
y	-6	-6	-4	0	6

6

x	-2	-1	0	1
y	0.08	0.4	2	10

7

x	0	1	2	3	4
y	3	2	3	6	11

8

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

9

x	0	2	1	-1	-2
y	2	8	4	1	0.5

10

x	0	2	4	-2	-4
y	1	4	7	-2	-5

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Answers

①

x	2	4	6	8	10
y	12	0	-4	0	12

Quadratic function

②

x	-2	-1	0	1	2
y	1	2	4	8	16

Exponential function

③

x	-3	-2	-1	0	1
y	11	8	5	2	-1

Linear function

④

x	-2	-1	0	1	2
y	-2	1	4	7	10

Linear function

⑤

x	-2	-1	0	1	2
y	-6	-6	-4	0	6

Quadratic function

⑥

x	-2	-1	0	1
y	0.08	0.4	2	10

Exponential function

⑦

x	0	1	2	3	4
y	3	2	3	6	11

Exponential function

⑧

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

Quadratic function

⑨

x	0	2	1	-1	-2
y	2	8	4	1	0.5

Exponential function

⑩

x	0	2	4	-2	-4
y	1	4	7	-2	-5

Linear function