

Name : _____

Score : _____ Date : _____

Comparing Linear, Quadratic, and Exponential Models

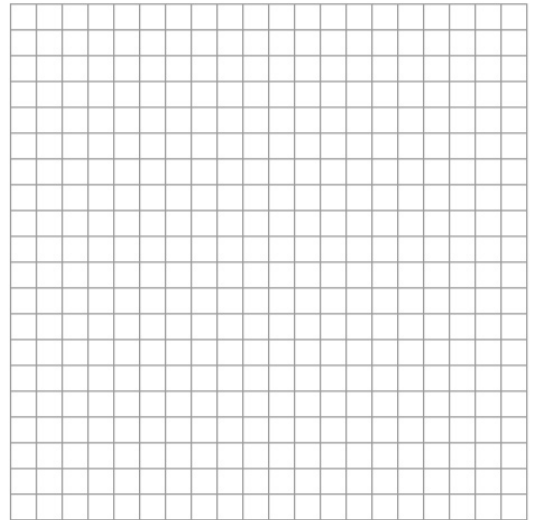
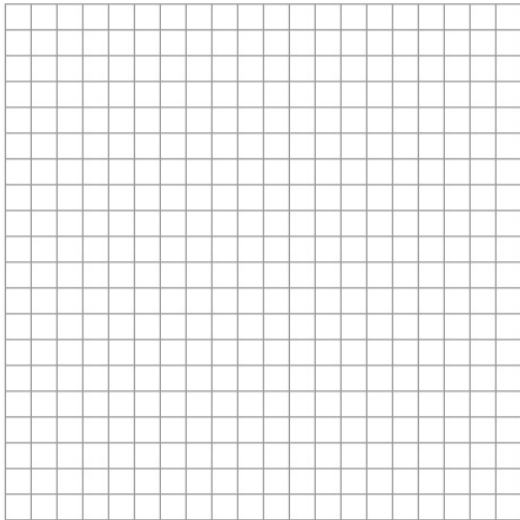
For each table below, identify if it is linear, quadratic, or exponential. Write an equation that represents it and then graph the equation.

①

x	-3	-2	-1	0	1	2	3
y	-16	-13	-10	-7	-4	-1	2

②

x	-3	-2	-1	0	1	2	3
y	18	13	10	9	10	13	18



Type: _____

Type: _____

Equation: _____

Equation: _____

Determine if the following tables represent a linear, quadratic, or an exponential function.

①

x	y
2	4
5	3
8	2
11	1

②

x	y
-2	6
-1	3
0	2
1	3
2	6

③

x	y
1	6
2	18
3	54
4	162

Name : _____

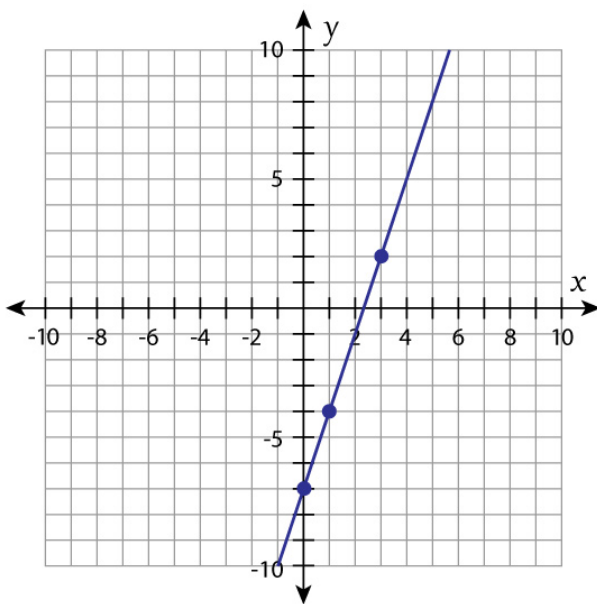
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Comparing Linear, Quadratic, and Exponential Models

Answers

①

x	-3	-2	-1	0	1	2	3
y	-16	-13	-10	-7	-4	-1	2

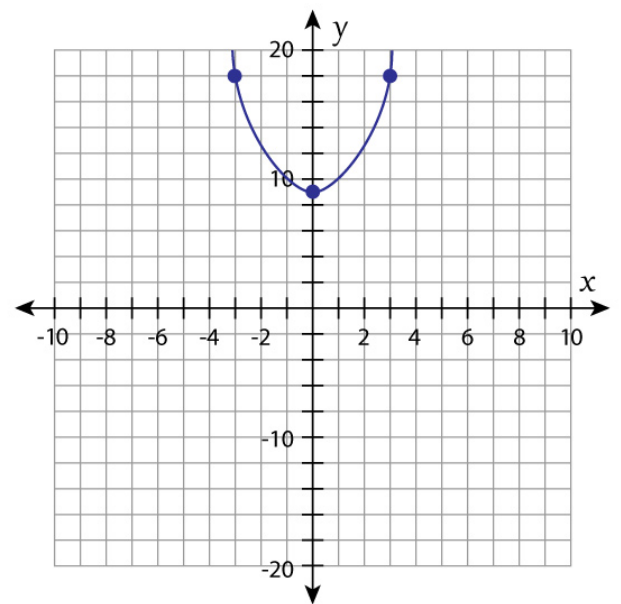


Type: Linear function

Equation: $y = 3x - 7$

②

x	-3	-2	-1	0	1	2	3
y	18	13	10	9	10	13	18



Type: Quadratic function

Equation: $y = x^2 + 9$

①

x	y
2	4
5	3
8	2
11	1

Linear function

②

x	y
-2	6
-1	3
0	2
1	3
2	6

Quadratic function

③

x	y
1	6
2	18
3	54
4	162

Exponential function