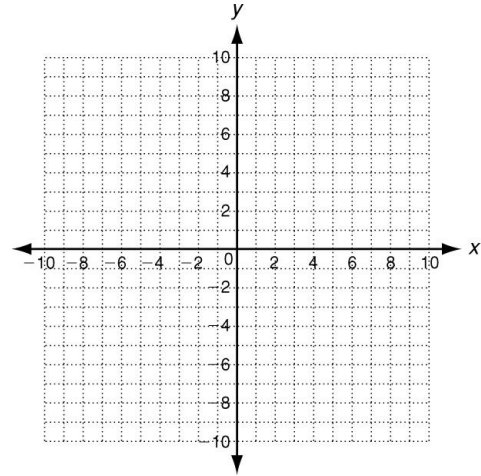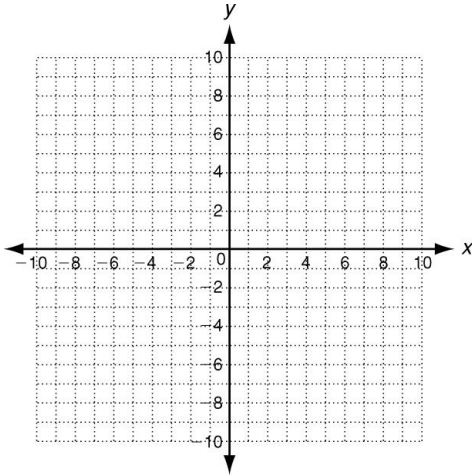Name_____ Date_____ Class _____

Linear, Quadratic & Exponential Models

Graph each data set. Write *linear*, *quadratic*, or *exponential*.

1. {(0, –4), (1, –2), (2, 0), (3, 2), (4, 4)}

2. {(–2, –5), (–1, –8), (0, –9), (1, –8), (2, –5)}

_____

_____

Look for a pattern in each data set. Write *linear*, *quadratic*, or *exponential*.

3.

x	y
0	3
1	6
2	12
3	24

4.

x	y
–2	–10
–1	–8
0	–6
1	–4

5.

x	y
0	2
1	6
2	12
3	20

_____ _____ _____

6. The data in the table show the price of apples at a local store over several *y*ears.

Year	1	2	3	4
Cost ($)	0.45	0.90	1.35	1.80

a. Which model best describes the data for apples? _____

b. Predict the cost of apples in year 8. _____

7. The data in the table show the price of a game over several *y*ears.

Year	0	1	2	3
Cost ($)	5.00	6.00	7.20	8.64

a. Which model best describes the data for the game? _____

b. Predict the cost of the game in year 7. Round the cost to
the nearest cent. _____