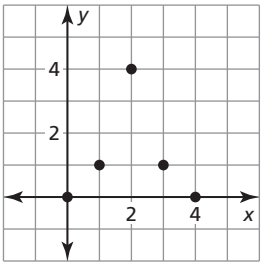
Name_____ Date _____

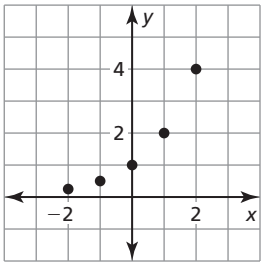
6.3 Practice B

In Exercises 1 and 2, tell whether the points appear to represent a *linear function*, an *exponential function*, or *neither*.

1.



2.



In Exercises 3–6, plot the points. Tell whether the points appear to represent a *linear function*, an *exponential function*, or *neither*.

3. $\left(2, \frac{1}{16}\right), \left(1, \frac{1}{4}\right), (0, 1), (-1, 4), (-2, 16)$

4. $(-1, 5), (0, 0), (1, -1), (2, 0), (3, 5)$

5. $(-4, -3), (-2, -2), (0, -1), (2, 0), (4, 1)$

6. $(-3, -6), (-2, -4), (-1, -2), (0, 0), (1, 2)$

In Exercises 7–10, tell whether the table of values represents a *linear*, or an *exponential* function. Then write the function.

7.

x	−3	−2	−1	0	1	2
y	8	4	2	1	0.5	0.25

8.

x	1	2	3	4	5	6
y	2	0	−2	−4	−6	−8

9.

x	1	2	3	4	5	6
y	−8	−5	−2	1	4	7

10.

x	−1	0	1	2	3
y	3	$\frac{3}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{16}$

11. Write a function that has an average rate of change that is constant.