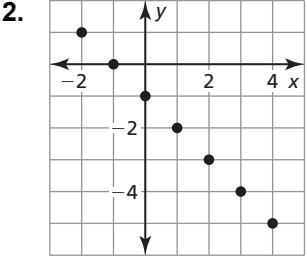
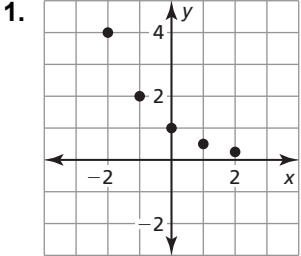


# 6.3

## Practice A

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



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

3.  $(-3, 9), (-2, 1), (-1, 0), (0, 1), (1, 9)$
4.  $(-4, -2), (-2, -1), (0, 0), (2, 1), (4, 2)$
5.  $(-3, -9), (-2, -6), (-1, 3), (0, 2), (1, 3)$
6.  $(-2, \frac{1}{4}), (-1, \frac{1}{2}), (0, 1), (1, 2), (2, 4)$
7. The table shows the demand  $y$  (in thousands) for a certain commodity, where  $x$  is the number of the month of the year.

<b>Number of month, <math>x</math></b>	1	2	3	4	5	6
<b>Demand (in thousands), <math>y</math></b>	512	256	128	64	32	16

- a. Plot the given ordered pairs from above. Let  $x$  be the independent variable. Then determine the type of function that best represents this situation.
- b. Write a function in standard form that models the data.
- c. Use the function from part (b) to find the demand for the commodity during August.