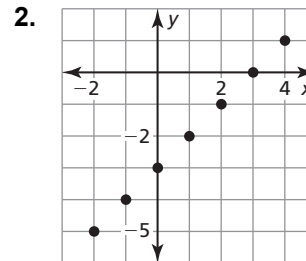
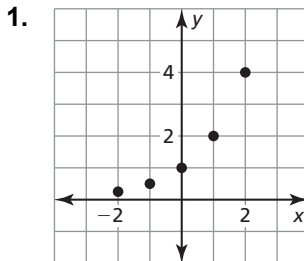


3.7 Practice A

In Exercises 1 and 2, tell whether the points appear to represent a *linear*, an *exponential*, or a *quadratic* function.



In Exercises 3–6, plot the points. Tell whether the points appear to represent a *linear*, an *exponential*, or a *quadratic* function.

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

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

5. $(-3, -6)$, $(-2, -1)$, $(-1, 2)$, $(0, 3)$, $(1, 2)$

6. $(-2, \frac{1}{9})$, $(-1, \frac{1}{3})$, $(0, 1)$, $(1, 3)$, $(2, 9)$

7. The table shows the demand for a certain commodity (measured in thousands), where x is the number of the month of the year.

Number of month, x	1	2	3	4	5	6
Demand, y	5	2	1	2	5	10

- During what month is the demand at a minimum?
- Plot the points. Let x be the independent variable. Then determine the type of function that best represents this situation.
- Write a function in standard form that models the data.
- Use the function from part (c) to find the demand for the commodity (measured in thousands) during August.