

LESSON
9.8

Practice A

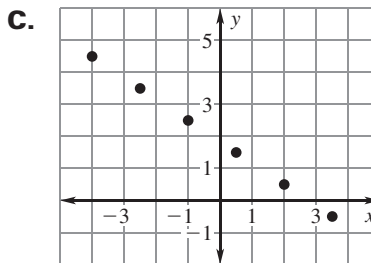
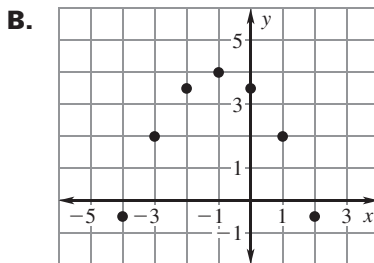
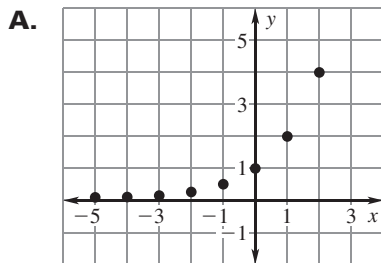
For use with the lesson "Compare Linear, Exponential, and Quadratic Models"

Match the function with the graph it represents.

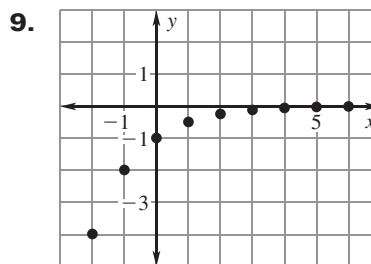
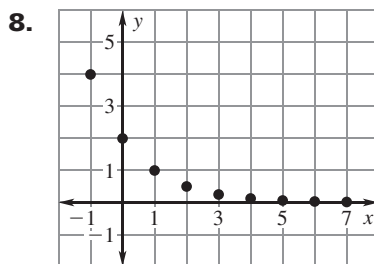
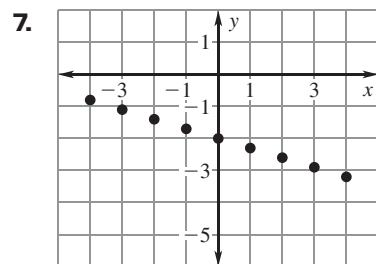
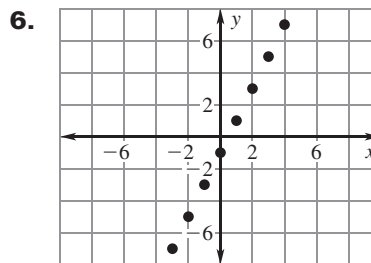
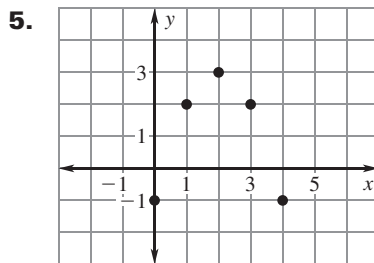
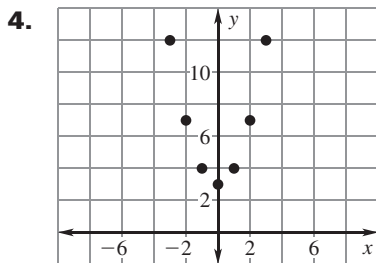
1. Linear function

2. Exponential function

3. Quadratic function

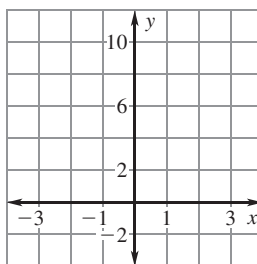
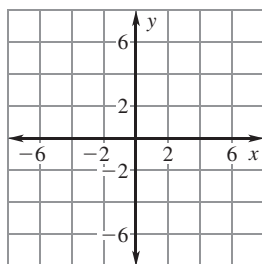


Use the graph to tell whether the points represent a *linear function*, an *exponential function*, or a *quadratic function*.



Use a graph to tell whether the ordered pairs represent a *linear function*, an *exponential function*, or a *quadratic function*.

- 10.** $(-4, -7), (-2, -4), (0, -1), (2, 2), (4, 5)$ **11.** $(-2, 8), (-1, 4), (0, 2), (1, 1), (2, \frac{1}{2})$

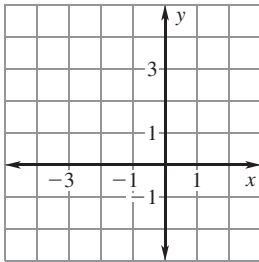


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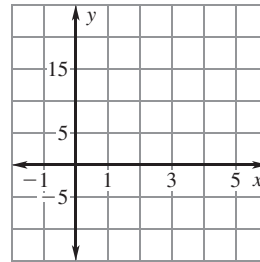
Practice A *continued*

For use with the lesson "Compare Linear, Exponential, and Quadratic Models"

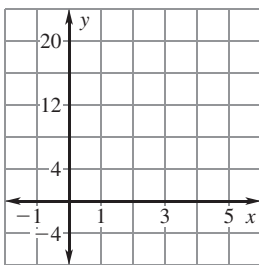
12. $(-3, 0), (-2, -2), (-1, -2), (0, 0), (1, 4)$



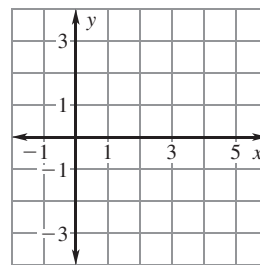
13. $(0, -5), (1, 1), (2, 7), (3, 13), (4, 19)$



14. $(0, 1), (1, 2), (2, 4), (3, 8), (4, 16)$



15. $(1, 2), (2, -1), (3, -2), (4, -1), (5, 2)$



Tell whether the table of values represents a **linear function**, an **exponential function**, or a **quadratic function**.

16.

x	-8	-4	0	4	8
y	-1	0	1	2	3

17.

x	-3	-2	-1	0	1
y	625	125	25	5	1

18.

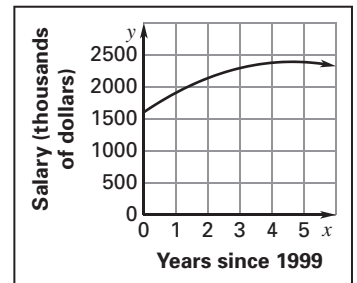
x	-4	-3	-2	-1	0
y	7	4	3	4	7

19.

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

20. **Baseball Salaries** The graph shows a model for the salaries (in thousands of dollars) of baseball players for the period 1999–2003.

- Is the model a *linear function*, a *quadratic function*, or an *exponential function*?
- Is this model good for predicting the salaries of players after 2003? *Explain* your reasoning.



21. **Consumer Spending** The graph shows the amount of money spent (in billions of dollars) in the United States on video and audio products, computer equipment, and musical instruments for the period 1990–2002. Tell whether the data should be modeled by a *linear function*, an *exponential function*, or a *quadratic function*.

