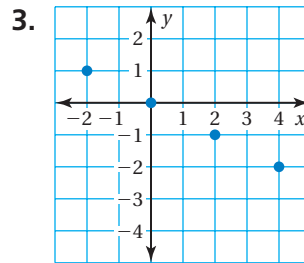
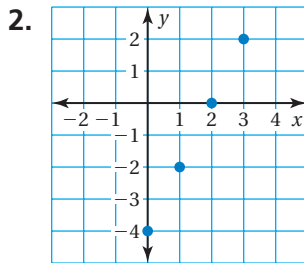
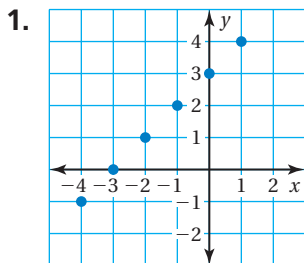


4.3–4.4 Quiz



Use the graph or table to write a linear function that relates y to x . (Section 4.3)



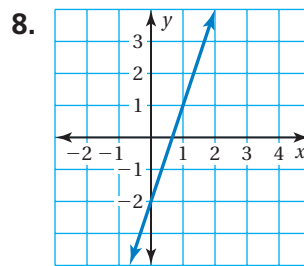
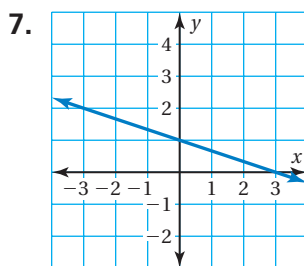
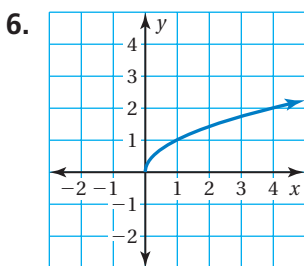
4.

x	0	1	2	3
y	2	1	0	-1

5.

x	-3	0	3	6
y	-3	-1	1	3

Does the table or graph represent a *linear* or *nonlinear* function? Explain. (Section 4.4)



9.

x	y
0	0
2	-2
4	-4
6	-6

10.

x	y
1	-2
3	7
5	23
7	47

11.

x	y
0	3
3	0
6	3
9	6

12. **ADVERTISING** The table shows the revenue R (in millions of dollars) of a company when it spends A (in millions of dollars) on advertising. (Section 4.3)

Advertising, A	Revenue, R
0	2
2	6
4	10
6	14
8	18

- Write a linear function that relates the revenue to the advertising cost.
- What is the revenue of the company when it spends \$10 million on advertising?

13. **CHICKEN SALAD** The equation $y = 7.9x$ represents the cost y (in dollars) of buying x pounds of chicken salad. Does this equation represent a linear or nonlinear function? Explain. (Section 4.4)