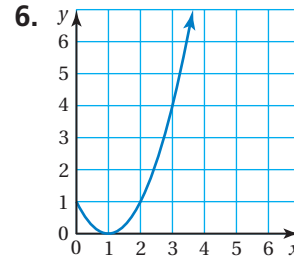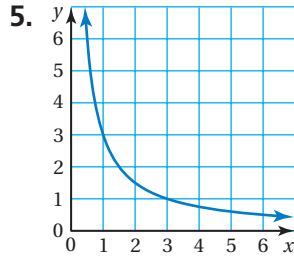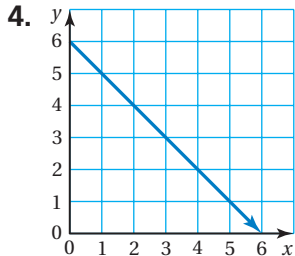Check It Out
Progress Check
BigIdeasMath.com

Graph the function.   *(Section 9.4)*

1. $y = x + 5$

2. $y = 2x + 3$

3. $y = \dfrac{x}{2}$

Does the graph represent a linear function? Explain.   *(Section 9.5)*

4.

5.

6.

Does the input-output table represent a linear function? Explain.   *(Section 9.5)*

7.

Input, x	0	1	2	3
Output, y	2	3	6	11

8.

Input, x	2	4	6	8
Output, y	7	9	11	13

9. PATTERN Make an input-output table for the pattern. Is the function relating the figure number x to the number of squares y linear? Explain. *(Section 9.5)*

Figure 1   Figure 2   Figure 3   Figure 4
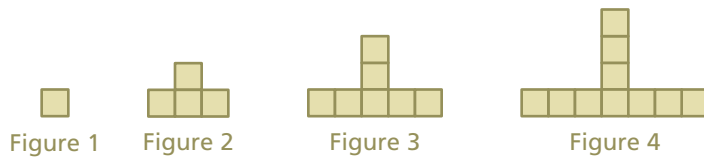
10. BABY The function $m = 32d$ gives the number of ounces m of milk that a baby drinks in d days. Graph the function. *(Section 9.4)*

11. SALES TAX The sales tax rate is 6%. *(Section 9.4)*

  a. Write a function you can use to find the amount of sales tax t on the price p of each item at a gift shop.

  b. Graph the function using the inputs 0, 10, 20, 30, and 40 for p.

  c. You buy a souvenir that costs $4.00. How much do you pay for the souvenir after sales tax is added?

12. HELICOPTER The graph shows the numbers of gallons of gasoline that two helicopters use after 5 hours of flying. Which helicopter uses more fuel in an hour? Explain. *(Section 9.5)*