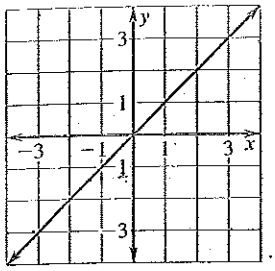
LESSON 4.8

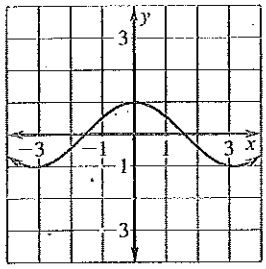
NAME _____ DATE _____

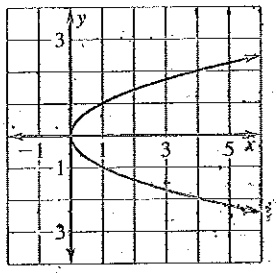
Practice A

For use with pages 256–262

Decide whether the graph represents y as a function of x. Explain your reasoning.

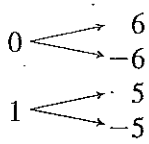
1. 

2. 

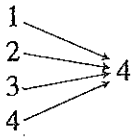
3. 

Decide whether the relation is a function. If it is a function, give the domain and the range.

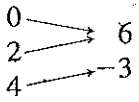
4. Input Output



5. Input Output



6. Input Output



Evaluate the function when $x = 3$, $x = 0$, and $x = -2$.

7. $f(x) = x$
8. $h(x) = x + 7$
9. $g(x) = x - 2$
10. $g(x) = 3x$
11. $g(x) = 4x - 1$
12. $h(x) = 1.2x$
13. $f(x) = 1.5x - 2$
14. $h(x) = -4x + \frac{1}{2}$
15. $f(x) = \frac{1}{3}x + \frac{2}{3}$

Graph the function.

16. $f(x) = x - 7$
17. $g(x) = 5x$
18. $h(x) = 2x + 1$
19. $g(x) = -4$
20. $f(x) = \frac{1}{2}x - 4$
21. $h(x) = -\frac{2}{5}x + 1$

Decide whether the relation is a function. If it is a function, give the domain and the range.

22.

Input Year	*Output Attendance*
1996	215
1997	297
1998	412
1999	690
2000	1043

23.

Input Temperature (°F)	*Output Date*
72°	June 8
74°	June 9
68°	June 10
70°	June 11
70°	June 12

24.

Input Area Code	*Output ZIP code*
907	99801
916	94203
916	94204
850	32306
217	62706

Lesson 4.8

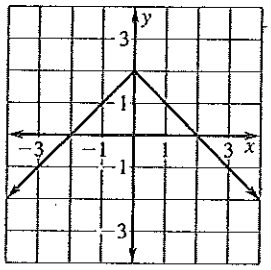
LESSON 4.8

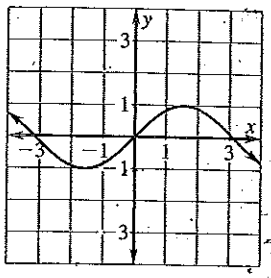
NAME _____ DATE _____

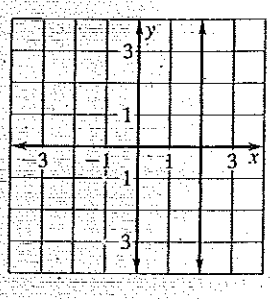
Practice B

For use with pages 256–262

Decide whether the graph represents y as a function of x. Explain your reasoning.

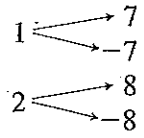
1. 

2. 

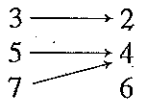
3. 

Decide whether the relation is a function. If it is a function, give the domain and the range.

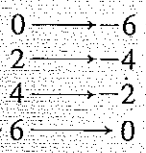
4. Input Output



5. Input Output



6. Input Output



Evaluate the function when $x = 3$, $x = 0$, and $x = -2$.

7. $f(x) = 2x - 5$
8. $h(x) = 6x + 2$
9. $g(x) = 2.4x$
10. $f(x) = 0.5x + 12$
11. $h(x) = \frac{2}{3}x - 1$
12. $f(x) = \frac{3}{5}x + 2$

Graph the function.

13. $f(x) = -4x + 3$
14. $g(x) = 2x - 5$
15. $h(x) = -3x - 1$
16. $g(x) = \frac{1}{4}x + 2$
17. $f(x) = -\frac{2}{3}x - 3$
18. $h(x) = -x + 4$

Find the slope of the graph of the linear function f.

19. $f(2) = 4, f(0) = 6$
20. $f(1) = 3, f(3) = 7$
21. $f(-2) = 2, f(0) = -4$
22. $f(-1) = -4, f(-2) = 0$
23. $f(-3) = 7, f(2) = -3$
24. $f(-4) = -1, f(3) = 5$

25. *Football Attendance* The table gives the attendance at a football championship for five consecutive years. Is attendance a function of the number of years since 1993? Why, or why not?

Years since 1993	1	2	3	4	5
Attendance	72,817	74,107	76,347	72,301	68,912