

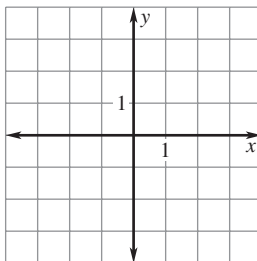
Chapter Test A

For use after Chapter 2

Graph the relation. Then tell whether the relation is a function.

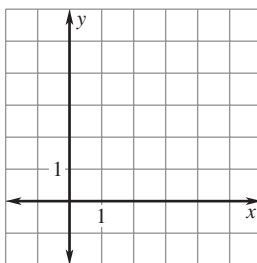
1.

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



2.

x	3	4	5	3	0	-1
y	3	4	5	6	0	-1



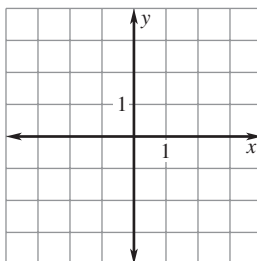
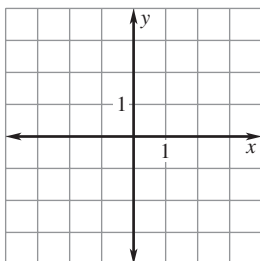
Evaluate the function for the given value of x .

3. $f(x) = x + 3$ when $x = -3$ 4. $f(x) = x^2 - 3x$ when $x = 3$
 5. $f(x) = |x - 2|$ when $x = 5$

Graph the equation.

6. $x = -1$

8. $y = \frac{2}{3}x - 2$



Write an equation of the line that has the given properties.

8. slope: $\frac{1}{2}$, y-intercept: 0 9. slope: 2, point: (1, 3) 10. points: (2, 1), (3, 2)
 11. Write an equation of the line that passes through (4, 3) and is parallel to the line $y = x + 1$.
 12. Write an equation of the line that passes through (-2, 1) and is perpendicular to the line $y = \frac{1}{2}x + 1$.

Answers

1. Use grid at left.

 2. Use grid at left.

 3. _____
 4. _____
 5. _____
 6. Use grid at left.

 7. Use grid at left.

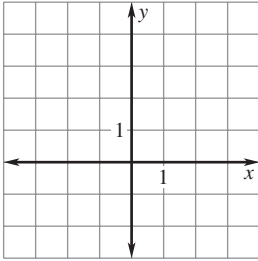
 8. _____
 9. _____
 10. _____
 11. _____
 12. _____

Chapter Test A

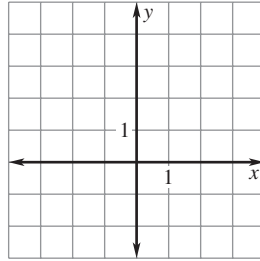
For use after Chapter 2

Graph the inequality in a coordinate plane.

13. $y \geq 2$

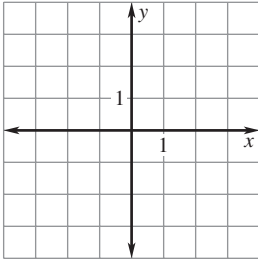


14. $y \geq 2x + 1$

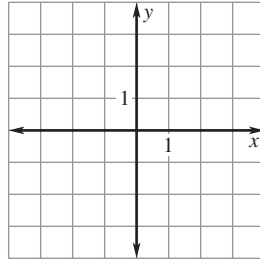


Graph the function.

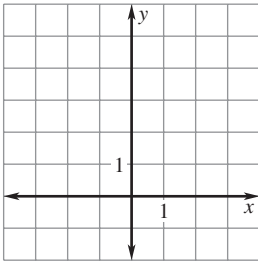
15. $f(x) = \begin{cases} 0, & \text{if } x > 0 \\ 2, & \text{if } x \leq 0 \end{cases}$



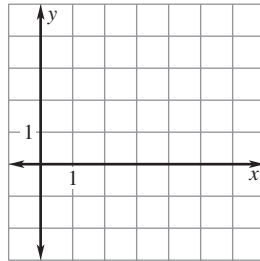
16. $f(x) = \begin{cases} x + 2, & \text{if } x \geq 0 \\ x - 2, & \text{if } x < 0 \end{cases}$



17. $f(x) = |x| + 1$



18. $f(x) = \frac{1}{2}|x - 4|$



19. **Ticket Prices** Student tickets for a football game cost \$2 each. Adult tickets cost \$4 each. Ticket sales at last week's game totaled \$2800. Write a model that shows the different numbers of students and adults who could have attended the game.

13. Use grid at left. _____

14. Use grid at left. _____

15. Use grid at left. _____

16. Use grid at left. _____

17. Use grid at left. _____

18. Use grid at left. _____

19. _____