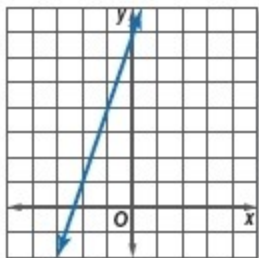
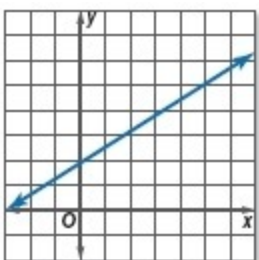


Mid-Chapter Quiz

Write an equation in slope-intercept form for each graph shown.



1.



2.

Graph each equation. Then state the slope and y-intercept.

3. $y = 2x + 3$

4. $y = \frac{1}{3}x - 2$

5. **BOATS** Write an equation in slope-intercept form for the total rental cost C for a pontoon boat used for t hours.



Write an equation of the line with the given conditions.

6. $(2, 5)$; slope 3

7. $(-3, -1)$, slope $\frac{1}{2}$

8. $(-3, 4)$, $(1, 12)$

9. $(-1, 6)$, $(2, 4)$

10. $(2, 1)$, slope 0

11. **MULTIPLE CHOICE** Write an equation of the line that passes through the point $(0, 0)$ and has slope -4 .

A $y = x - 4$

B $y = x + 4$

C $y = -4x$

D $y = 4 - x$

Write an equation in point-slope form for the line that passes through each point with the given slope.

12. $(1, 4)$, $m = 6$

13. $(-2, -1)$, $m = -3$

14. Write an equation in point-slope form for the line that passes through the point $(8, 3)$, $m = -2$.

15. Write $y + 3 = \frac{1}{2}(x - 5)$ in standard form.

16. Write $y + 4 = -7(x - 3)$ in slope-intercept form.

Write each equation in standard form.

17. $y - 5 = -2(x - 3)$

18. $y + 4 = \frac{2}{3}(x - 3)$

Write each equation in slope-intercept form.

19. $y - 3 = 4(x + 3)$

20. $y + 1 = \frac{1}{2}(x - 8)$

21. **MULTIPLE CHOICE** Determine whether the graphs of the pair of equations are *parallel*, *perpendicular*, or *neither*.

$y = -6x + 8$

$3x + \frac{1}{2}y = -3$

F parallel

G perpendicular

H neither

J not enough information

Write an equation in slope-intercept form for the line that passes through the given point and is perpendicular to the graph of the equation.

22. $(3, -4)$; $y = -\frac{1}{3}x - 5$

Mid-Chapter Quiz

23. $(0, -3); y = -2x + 4$

24. $(-4, -5); -4x + 5y = -6$

25. $(-1, -4); -x - 2y = 0$