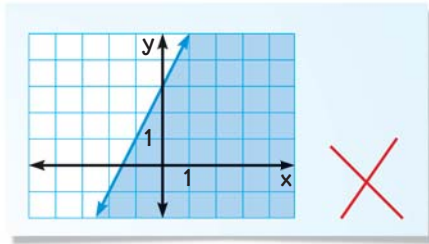
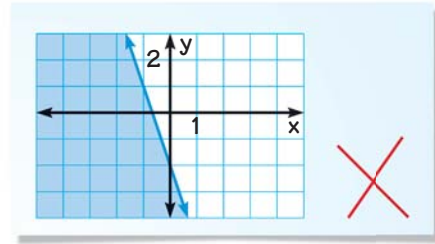


**ERROR ANALYSIS** Describe and correct the error in graphing the inequality.

19.  $y < 2x + 3$



20.  $y \geq -3x - 2$



21. **TX TAKS REASONING** Which ordered pair is *not* a solution of  $3x - 5y < 30$ ?

- (A) (0, 0)      (B) (-1, 7)      (C) (1, -7)      (D) (-5, -5)

**EXAMPLE 5**

on p. 135  
for Exs. 22–28

**ABSOLUTE VALUE INEQUALITIES** Graph the inequality in a coordinate plane.

22.  $y > |x - 1|$

23.  $y < |x| + 5$

24.  $y > |x + 4| - 3$

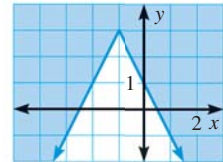
25.  $y \leq -\frac{1}{2}|x - 2| + 1$

26.  $y < 3|x| + 2$

27.  $y \geq 2|x - 1| - 4$

28. **TX TAKS REASONING** The graph of which inequality is shown?

- (A)  $y \leq -2|x + 1| + 3$       (B)  $y \geq -2|x - 1| + 3$   
(C)  $y > -2|x + 1| + 3$       (D)  $y \geq -2|x + 1| + 3$



**CHECKING SOLUTIONS** Tell whether the given ordered pairs are solutions of the inequality.

29.  $y \geq -\frac{2}{3}x + \frac{1}{2}$ ; (-6, 8), (-3, -3)

30.  $4.5 + y < 1.6x$ ; (0.5, 1), (3.8, 0)

31.  $0.2x + 0.7y > -1$ ; (0.5, -1), (-3, -1.5)

32.  $\frac{1}{4}x - y > 1$ ;  $(\frac{4}{3}, 0)$ ,  $(\frac{2}{3}, -4)$

**GRAPHING INEQUALITIES** Graph the inequality in a coordinate plane.

33.  $3y < 4.5x + 15$

34.  $-1.5y - 2x > 3$

35.  $-y - 0.2 > -0.6x$

36.  $\frac{2}{3}x + \frac{1}{2}y > 2$

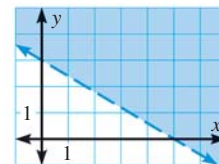
37.  $y \geq -\frac{5}{2}|x - 3| - \frac{3}{2}$

38.  $2y - 4 \leq -3|x + 2|$

39. **TX TAKS REASONING** Write a linear inequality in two variables that has (-1, 3) and (1, 6) as solutions, but does not have (4, 0) as a solution.

40. **WRITING** Explain why it is not helpful when graphing a linear inequality in two variables to choose a test point that lies on the boundary line.

41. **TX TAKS REASONING** Write an inequality for the graph shown. Explain how you came up with the inequality. Then describe a real-life situation that the first-quadrant portion of the graph could represent.



42. **CHALLENGE** Write an absolute value inequality that has exactly one solution in common with  $y \geq 2|x - 3| + 5$ . The common solution should not be the vertex (3, 5) of the boundary. Explain how you found your inequality.