Pg. 104 # 1-19 odd (skip 11), 23, 26, 28-30, 36-42 even

Graph each inequality.

1. $y > 2x + 1$

2. $y < 3$

3. $x \leq 0$

4. $y \leq x - 5$

5. $2x + 3y \geq 12$

6. $2y \geq 4x - 6$

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

8. $3x - 2y \leq 9$

9. $5x > -y + 3$

10. **Cooking** The time needed to roast a chicken depends on its weight. Allow at least 20 min/lb for a chicken weighing as much as 6 lb. Allow at least 15 min/lb for a chicken weighing more than 6 lb.
    a. Write two inequalities to represent the time needed to roast a chicken.
    b. Graph the inequalities.

Graph each absolute value inequality.

11. $y \geq |2x - 1|$

12. $y \leq |3x| + 1$

13. $y \leq |4 - x|$

14. $y > |-x + 4| + 1$

15. $y - 7 > |x + 2|$

16. $y + 2 \leq \left|\frac{1}{2}x\right|$

17. $3 - y \geq -|x - 4|$

18. $1 - y < |2x - 1|$

19. $y + 3 \leq |3x| - 1$

Graph each inequality on a coordinate plane.

23. $5x - 2y \geq -10$

24. $2x - 5y < -10$

25. $\frac{3}{4}x + \frac{2}{3}y > \frac{5}{2}$

26. $3(x - 2) + 2y \leq 6$

27. $0.5x + 1.2y < 6$

28. $-3x + 4y > -6$

29. $\frac{1}{2}x + \frac{2}{3}y \geq 1$
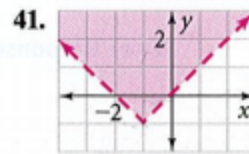
30. $|x - 1| > y + 7$
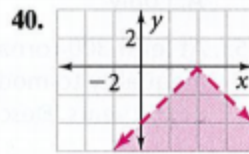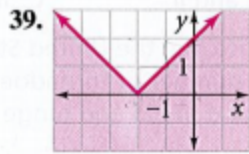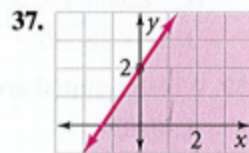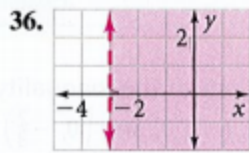
31. $y - |2x| \leq 21$

32. $\frac{2}{3}x + 2 \leq \frac{2}{9}y$

33. $0.25y - 1.5x \geq -4$

34. $8x - 4y \geq -3$

35. **Open-Ended** Write an inequality that has $(10, 15)$, $(-10, 20)$, $(-20, -25)$, and $(25, -10)$ as solutions.

Write an inequality for each graph.

36.

37.

38.

39.

40.

41.

42. Multiple Choice Which graph best represents the solution of the inequality
$y \geq 2|x - 1| - 2$?

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