Solving Linear Inequalities

Solve and Graph.

1. $x + 3 < -4$

2. $x - 5 < -8$

3. $3x - 5 < -8$

4. $3x - 2 < -8$

5. $2x - 7 < 15$

6. $2x - 7 < 13$

7. $-4x + 3 \leq 15$

8. $-4x + 3 \leq 19$

9. $-5x + 3 \leq -11$

10. $-5x + 3 \leq -13$

11. $-x + 2 \leq -9$

12. $-x + 5 \leq -9$

13. $2(x - 3) + 4 \geq 6$

14. $2(x - 3) + 4 \geq 12$

15. $3(x + 5) - 4 \geq 15$

16. $3(x + 7) + 4 \geq 15$

17. $-5(x - 2) - 6 \geq -11$

18. $-5(x - 4) + 6 \geq 11$

19. $4x - 8 > x + 9$

20. $4x + 5 > x - 9$

21. $x + 4 > 3x - 2$

22. $x + 4 > 5x + 3$

23. $3(x + 5) \leq 2(x - 5)$

24. $3(x - 5) \leq 2(x + 5)$

25. $2(x-7) \leq 5(x+2)$

26. $2(x-7) \leq 3(x-2)$

27. $4x > \frac{2}{3}$

28. $2x > \frac{2}{3}$

29. $3x < \frac{9}{5}$

30. $5x < \frac{2}{5}$

31. $-2x < \frac{4}{5}$

32. $-3x < \frac{9}{5}$

33. $-4x + \frac{1}{5} \geq \frac{4}{5}$

34. $-6x + \frac{3}{7} \geq \frac{6}{7}$

35. $7x - \frac{3}{8} \geq -\frac{5}{8}$

36. $5x - \frac{3}{8} \geq -\frac{5}{8}$

37. $\frac{2}{3}x \leq 8$

38. $\frac{3}{4}x \leq 8$

39. $\frac{3}{5}x \leq -9$

40. $\frac{3}{5}x \leq -12$

41. $-\frac{3}{5}x \leq -12$

42. $-\frac{3}{5}x \leq -9$

43. $\frac{1}{2}x > \frac{3}{8}$

44. $\frac{1}{4}x > \frac{3}{8}$

45. $\frac{3}{4}x > -\frac{3}{8}$

46. $\frac{3}{4}x > -\frac{5}{8}$

47. $-\frac{2}{7}x < \frac{2}{5}$

48. $-\frac{2}{7}x < \frac{4}{5}$

49. $\frac{4}{5}x + \frac{5}{2} \leq \frac{1}{2}$

50. $\frac{3}{5}x + \frac{5}{2} \leq \frac{3}{2}$

51. $-\frac{2}{5}x + \frac{1}{5} \leq \frac{7}{5}$

52. $-\frac{2}{5}x + \frac{3}{5} \leq \frac{7}{5}$