Pg. 136 #5, 6, 9, 13, 15, 21, 23, 25 and pg. 138 #59, and 61

Tell whether $(-3, 3)$ is a solution of each system.

4. $\begin{cases} y \geq x + 2 \\ 3y < -6x + 6 \end{cases}$ **5.** $\begin{cases} y - 2x \leq 1 \\ y < -2x - 2 \end{cases}$ **6.** $\begin{cases} -2y + x \leq 4 \\ 3y < -9x + 3 \end{cases}$

Solve each system of inequalities by graphing.

7. $\begin{cases} y \leq 2x + 2 \\ y < -x + 1 \end{cases}$ **8.** $\begin{cases} y > -2 \\ x < 1 \end{cases}$ **9.** $\begin{cases} y \leq 3 \\ y \leq \frac{1}{2}x + 1 \end{cases}$

10. $\begin{cases} y \leq 3x + 1 \\ -6x + 2y > 5 \end{cases}$ **11.** $\begin{cases} x + 2y \leq 10 \\ x + y \leq 3 \end{cases}$ **12.** $\begin{cases} -x - y \leq 2 \\ y - 2x > 1 \end{cases}$

13. $\begin{cases} y > -2x \\ 2x - y \geq 2 \end{cases}$ **14.** $\begin{cases} c \geq d - 3 \\ c < \frac{1}{2}d + 3 \end{cases}$ **15.** $\begin{cases} 2x + y < 1 \\ -y + 3x < 1 \end{cases}$

Solve each system of inequalities by graphing.

18. $\begin{cases} y > 4 \\ y < |x - 1| \end{cases}$ **19.** $\begin{cases} y < -\frac{1}{3}x + 1 \\ y > |2x - 1| \end{cases}$ **20.** $\begin{cases} y > x - 2 \\ y \geq |x + 2| \end{cases}$

21. $\begin{cases} y \leq -\frac{4}{3}x \\ y \geq -|x| \end{cases}$ **22.** $\begin{cases} 3y < -x - 1 \\ y \leq |x + 1| \end{cases}$ **23.** $\begin{cases} y > -2 \\ y \leq -|x - 3| \end{cases}$

24. $\begin{cases} -2x + y > 3 \\ y \leq -|x + 4| \end{cases}$ **25.** $\begin{cases} 5y \geq 2x - 5 \\ y < |x + 3| \end{cases}$ **26.** $\begin{cases} y \geq -3x + 3 \\ y > |x + 2| \end{cases}$

27. $\begin{cases} -2y < 4x + 2 \\ y > |2x + 1| \end{cases}$ **28.** $\begin{cases} -x \geq 4 - y \\ y \geq |3x - 6| \end{cases}$ **29.** $\begin{cases} y \leq x - 4 \\ y > |x - 6| \end{cases}$

Solve each system by elimination or substitution.

57. $\begin{cases} y = 3x + 1 \\ 2x - y = 8 \end{cases}$ **58.** $\begin{cases} 3x + y = 4 \\ 2x - 4y = 7 \end{cases}$ **59.** $\begin{cases} -x + 5y = 3 \\ 2x - 10y = 4 \end{cases}$

60. $\begin{cases} 2x + 4y = -8 \\ -5x + 4y = 6 \end{cases}$ **61.** $\begin{cases} y - 3 = x \\ 4x + y = -2 \end{cases}$ **62.** $\begin{cases} 2 = 4y - 3x \\ 5x = 2y - 3 \end{cases}$