

Systems of linear inequalities

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Sketch the solution to each system of inequalities.

$$\begin{aligned} 1) \quad & y \leq x + 3 \\ & y \leq -2x - 3 \end{aligned}$$

$$\begin{aligned} 2) \quad & y \geq -\frac{2}{3}x + 3 \\ & y < x - 2 \end{aligned}$$

$$\begin{aligned} 3) \quad & y \leq -\frac{1}{2}x - 1 \\ & y > -\frac{5}{2}x + 3 \end{aligned}$$

$$\begin{aligned} 4) \quad & y \geq -\frac{3}{2}x + 2 \\ & y < \frac{1}{2}x - 2 \end{aligned}$$

$$\begin{aligned} 5) \quad & y < -4x + 1 \\ & y \leq -x - 2 \end{aligned}$$

$$\begin{aligned} 6) \quad & y > 2x - 1 \\ & y > \frac{1}{2}x + 2 \end{aligned}$$

$$\begin{aligned} 7) \quad & y \geq x - 2 \\ & y \leq -2x + 1 \end{aligned}$$

$$\begin{aligned} 8) \quad & y \geq \frac{5}{3}x - 2 \\ & y \geq \frac{1}{3}x + 2 \end{aligned}$$

$$\begin{aligned} 9) \quad & x + y < 1 \\ & 4x + y < -2 \end{aligned}$$

$$\begin{aligned} 10) \quad & y < 3 \\ & 4x - 3y \leq 3 \end{aligned}$$

$$\begin{aligned} 11) \quad & x + 3y > -9 \\ & 4x - 3y \geq -6 \end{aligned}$$

$$\begin{aligned} 12) \quad & 5x - 2y \leq -4 \\ & x - 2y > 4 \end{aligned}$$