

Draw the graph and shade the solution set for each of the following inequalities. **Show the work for the shading.**

1. $x \geq -2$
2. $y \leq 0$
3. $2x - 3y < 6$
4. $2x - 5y > 0$
5. $-4x + 3y \leq 12$
6. $-3x + 5y \leq -15$
7. $2x - 5y \leq -10$
8. $2x + 3y > -6$
9. $3x + 2y \leq 0$
10. $-4x - 3y \leq 0$

Solve the following systems of linear inequalities and shade the solution set. **Label the lines and show all work for the shading.**

$$1. \quad \begin{array}{l} x \geq -2 \\ -3x + 4y < 12 \end{array}$$

$$2. \quad \begin{array}{l} y \geq 0 \\ 4x + 5y < 20 \end{array}$$

$$3. \quad \begin{array}{l} 3x + 5y > 0 \\ 5x - 4y \geq -20 \\ x \geq 0 \end{array}$$

$$4. \quad \begin{array}{l} y \leq 0 \\ 2x - 3y \geq 0 \\ x - y < 6 \end{array}$$

$$5. \quad \begin{array}{l} 2x + 3y \geq 0 \\ -4x + 3y < 12 \\ -4x + 3y \geq -12 \end{array}$$

$$6. \quad \begin{array}{l} x \leq 0 \\ 2x - 5y > -10 \\ -3x + 2y \geq -6 \end{array}$$

$$7. \quad \begin{array}{l} x \leq 2 \\ 2x - y > -4 \\ 2x + 3y \leq 0 \end{array}$$