

Sombree el área correspondiente a las siguientes restricciones

1.

$$\left. \begin{array}{l} x \geq 0 \\ y \geq 0 \\ 2x + 4y \geq 8 \\ 2x - 5y \leq 0 \\ -x + 5y \leq 5 \end{array} \right\}$$

2.

$$\left. \begin{array}{l} x \geq 0 \\ y \geq 0 \\ r \equiv 3x + 2y \leq 120 \\ s \equiv x + 2y \leq 80 \end{array} \right\}$$

3.

$$\left. \begin{array}{l} x \geq 0 \\ y \geq 0 \\ r \equiv x + y \leq 90 \\ s \equiv 20x + 50y \leq 3000 \Rightarrow 2x + 5y \leq 300 \end{array} \right\}$$

4.

$$\left. \begin{array}{l} x \geq 0 \quad y \geq 0 \\ x + y \leq 10 \\ x \leq 6 \\ y \geq 2 \\ x \geq y \end{array} \right\}$$

5.

$$\left. \begin{array}{l} x \geq 0 \\ y \geq 0 \\ r \equiv x \leq 120 \\ s \equiv y \leq 100 \\ t \equiv x + y \leq 150 \end{array} \right\}$$

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6.

$$\left. \begin{array}{l} x \geq 0 \\ y \geq 0 \\ r \equiv 50x + 80y \leq 50000 \Rightarrow 5x + 8 \leq 5000 \\ s \equiv x + y \leq 700 \end{array} \right\}$$

7.

$$\left. \begin{array}{l} x \geq 0 \quad y \geq 0 \\ r \equiv x + 2y \leq 80 \\ s \equiv 3x + 2y \leq 120 \end{array} \right\}$$

8.

$$\left. \begin{array}{l} x \geq 0 \quad y \geq 0 \\ r \equiv 13x + 8y \leq 600 \\ s \equiv x \geq \frac{(x+y) \cdot 40}{100} \Rightarrow 3x - 2y \geq 0 \\ t \equiv y \geq \frac{(x+y) \cdot 20}{100} \Rightarrow x - 4y \leq 0 \end{array} \right\}$$

9.

$$\left. \begin{array}{l} r \equiv x \geq 2 \\ s \equiv x \leq 7 \\ t \equiv x \geq y \\ u \equiv x + y \leq 10 \end{array} \right\}$$

10.

$$\left. \begin{array}{l} x \geq 0 \quad y \geq 0 \\ r \equiv 0,3x + 0,3y \geq 900000 \Rightarrow x + y \geq 3000000 \\ s \equiv 0,2x + 0,4y \geq 800000 \Rightarrow x + 2y \geq 4000000 \\ t \equiv 0,3x + 0,2y \geq 500000 \Rightarrow 3x + 2y \geq 5000000 \end{array} \right\}$$