

SISTEMAS DE ECUACIONES NO LINEALES

1. Resuelve los siguientes sistemas de ecuaciones:

$$\text{a) } \left. \begin{array}{l} x - y = 1 \\ x^2 + y^2 = 13 \end{array} \right\}$$

$$\text{d) } \left. \begin{array}{l} 2x - y = 8 \\ \sqrt{x-1} = y \end{array} \right\}$$

$$\text{b) } \left. \begin{array}{l} x \cdot y = -3 \\ 3x + 2y = -3 \end{array} \right\}$$

$$\text{e) } \left. \begin{array}{l} \sqrt{x+y} - 1 = x - 2 \\ 2x = y + 5 \end{array} \right\}$$

$$\text{c) } \left. \begin{array}{l} x^2 + y^2 = 2x + 7 \\ x^2 + 2y^2 = 9 \end{array} \right\}$$

$$\text{f) } \left. \begin{array}{l} 2\sqrt{x+3} = y + 1 \\ 2x - 3y = -3 \end{array} \right\}$$

2. Resuelve:

$$\text{a) } \left. \begin{array}{l} \frac{x}{y} = \frac{1}{5y-7} \\ x \cdot y - 2 = 0 \end{array} \right\}$$

$$\text{b) } \left. \begin{array}{l} \frac{1}{x} + \frac{1}{y} = 5 \\ 2x + 3y = 2 \end{array} \right\}$$

3. Resuelve los siguientes sistemas:

$$\text{a) } \left. \begin{array}{l} y - x = 1 \\ 2^x + 2^y = 6 \end{array} \right\}$$

$$\text{c) } \left. \begin{array}{l} \log x + \log y = 1 \\ 2\log x - 3\log y = 2 \end{array} \right\}$$

$$\text{b) } \left. \begin{array}{l} 3^{x+2} \cdot 3^{3y} = 1 \\ \frac{3^{1-x}}{3^{4y}} = 9 \end{array} \right\}$$

$$\text{d) } \left. \begin{array}{l} x + 10y = 220 \\ \log x - \log y = 2 \end{array} \right\}$$