



## SISTEMAS DE ECUACIONES NO LINEALES

1. 
$$\begin{cases} x^2 + y = 24 \\ y = 2x + 16 \end{cases}$$

2. 
$$\begin{cases} x^2 + y^2 = 34 \\ x^2 - y^2 = 16 \end{cases}$$

3. 
$$\begin{cases} 2x + y = 4 \\ x^2 - 2y^2 = 1 \end{cases}$$

4. 
$$\begin{cases} x^2 = 2y^2 - 1 \\ 2x^2 = (y+5)^2 - 2 \end{cases}$$

5. 
$$\begin{cases} \frac{1}{x} + \frac{1}{y} = \frac{5}{6} \\ 2x + 3y = 2 \end{cases}$$

6. 
$$\begin{cases} x^2 + y^2 - 5x - 5y + 10 = 0 \\ x^2 - y^2 - 5x + 5y + 2 = 0 \end{cases}$$

7. 
$$\begin{cases} x \cdot y = 15 \\ \frac{x}{y} = \frac{5}{3} \end{cases}$$

8. 
$$\begin{cases} (x+y)(x-y) = 7 \\ 3x - 4y = 0 \end{cases}$$

9. 
$$\begin{cases} (x+3)(y-5) = 0 \\ (x-2)(y-1) = 0 \end{cases}$$

10. 
$$\begin{cases} \frac{1}{x+1} - \frac{1}{y+1} = \frac{9}{35} \\ \frac{1}{x+y} = \frac{6}{5} \end{cases}$$

11. 
$$\begin{cases} y^2 - 2y + 1 = x \\ \sqrt{x} + y = 5 \end{cases}$$

12. 
$$\begin{cases} 2\sqrt{x+1} = y+1 \\ 2x - 3y = 1 \end{cases}$$

13. 
$$\begin{cases} \sqrt{3(x+y)} + x = 12 \\ 2x - y = 6 \end{cases}$$

14. 
$$\begin{cases} \sqrt{x+y} + 2 = x+1 \\ 2x - y = 5 \end{cases}$$

15. 
$$\begin{cases} x + y = 8 \\ \sqrt{x+y} - \sqrt{x-y} = \sqrt{2x} \end{cases}$$

16. 
$$\begin{cases} x + y = -5 \\ \sqrt{2x+4y} = \sqrt{3y+x} - 1 \end{cases}$$

17. 
$$\begin{cases} x - y = 10 \\ x \cdot y = 56 \end{cases}$$

18. 
$$\begin{cases} x + y = 29 \\ x \cdot y = 100 \end{cases}$$

19. 
$$\begin{cases} x - y = 1 \\ x^2 - y^2 = 5 \end{cases}$$

20. 
$$\begin{cases} x = 3y \\ x^2 + y^2 = 40 \end{cases}$$

21. 
$$\begin{cases} x + y = 3 \\ x^2 + 2xy = 8 \end{cases}$$

22. 
$$\begin{cases} z + y = 1 \\ z^2 + y^2 = 41 \end{cases}$$

23. 
$$\begin{cases} \frac{1}{x} + \frac{1}{y} = 1 - \frac{1}{xy} \\ x \cdot y = 6 \end{cases}$$

24. 
$$\begin{cases} \frac{x}{3} + \frac{y}{2} = 3 \\ x^2 + y^2 - 2xy = 1 \end{cases}$$