

3. Solve the exponential equation $3^{2x} = 5^{x-1}$. Find the exact solution and then approximate the value with your calculator.

4. Use the substitution method to find all solutions to the system
$$\begin{cases} x - y = 5 \\ -3x + 3y = 2 \end{cases}$$

5. Use the elimination method to solve the system
$$\begin{cases} 2x - y = -1 \\ x + \frac{1}{2}y = \frac{3}{2} \end{cases}$$