UFID: _____

1. Solve the inequality.

$$\frac{3}{x-1} + \frac{2x}{x+1} > -1 \tag{1}$$

2. Solve the system by the method of substitution

$$\begin{cases} x^2 + 4y^2 = 1 \\ x^2 - y^2 = 6 \end{cases} \tag{2}$$

3. Solve the system by the method of substitution

$$\begin{cases} 3x + 11y = 4 \\ -2x - 5y = 9 \end{cases} \tag{3}$$

4. Find the domain of the function .

$$f(x) = \sqrt{\frac{x}{x^2 - 2x - 35}} \tag{4}$$