Precalculus

8-01 Nonlinear and Linear Systems

System of Equations

Several equations with the ______solution

Substitution

- 1. _____one equation for a variable
- 2. _____this expression into the other equation
- 3. _____the new equation
- 4. _____the solution back into the 1st equation and solve

Solve $\begin{cases} -2x + y = 5\\ x^{2} + 3x - y = 1 \end{cases}$

Graphical Method

1 · 11

- _____both equations on ______coordinate plane
- The points of _____are the solutions.

S	Solve graphically													
{	$\begin{cases} x^2 - y = 5\\ -x + y = -3 \end{cases}$													
	•											→		
						_								
							1							