## Precalculus

## 8-01 Nonlinear and Linear Systems

## System of Equations

- Several equations with the $\qquad$ solution


## Substitution

1. $\qquad$ one equation for a variable
2. $\qquad$ this expression into the other equation
3. $\qquad$ the new equation
4. $\qquad$ the solution back into the 1st equation and solve
5. your answers!
Solve $\left\{\begin{array}{r}-2 x+y=5 \\ x^{2}+3 x-y=1\end{array}\right.$

## Graphical Method

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- The points of
both equations on $\qquad$ coordinate plane
$\qquad$
Solve graphically
$\left\{x^{2}-y=5\right.$
$\left\{\begin{array}{l}x^{2}-x+y=-3\end{array}\right.$


