Algebra 2

1-02 Solve Linear Systems Algebraically

Substitution

- 1. Solve one equation for _____ variable
- 2. Use that expression to ______ that variable in the ______ equation
- 3. _____ the new equation
- 4. _____ back into the _____ equation
- 5. _____ for the second variable

Solve $\begin{cases} y = x + 2\\ 2x + y = 8 \end{cases}$

Solve $\begin{cases} 3x + 2y = 8\\ x + 4y = -4 \end{cases}$

Elimination

- 1. _____ up the equations into _____
- 2. Multiply ______ or ______ equations by numbers so that one variable has the same ______, but opposite ______
- 3. _____ the equations
- 4. _____ the resulting equation
- 5. _____ the value into one _____ equation and solve

Solve
$$\begin{cases} 2x - 3y = -14\\ 3x - y = -7 \end{cases}$$

Name: _____

Worksheet