

Geometry Systems of Equations Skills Review

**For problems #1-2 Solve the systems of equations by substitution.**

1. $\begin{cases} x = 5 - y \\ y - 2x = 11 \end{cases}$	2. $\begin{cases} x - 3y = -1 \\ 2x - 4y = 2 \end{cases}$
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**For problems #3-4 solve the systems of equations by elimination.**

3. $\begin{cases} -x + 2y = 12 \\ x + 6y = 20 \end{cases}$	4. $\begin{cases} 2x + 3y = 18 \\ 5x - y = 11 \end{cases}$
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**Problems #5-6: choose whichever method you would like to use (substitution or elimination)**

$$5. \begin{cases} 5x + 2y = 4 \\ x - 2y = 8 \end{cases}$$

$$6. \begin{cases} 2x + 3y = 7 \\ -4x + 10y = 6 \end{cases}$$

**For problem #7 define variables and write a system of equations and then solve algebraically to answer the question.**

7. Ms. Zimmerman enjoys Bon Appétit and Martha Stewart magazines. She has a collection of 30 magazines total. Bon Appétit costs \$3.29 per magazine and Martha Stewart costs \$4.50 per magazine. Ms. Zimmerman has spent \$113.22 total. How many of each magazine does she own?