

Name: \_\_\_\_\_

**Simple Systems of Equations**

**For 1 – 6, find the (x, y) pair that makes BOTH equations true.**

1)  $\begin{cases} x + y = 12 \\ x - y = 2 \end{cases}$

4)  $\begin{cases} y = 2x + 8 \\ y = 4x + 2 \end{cases}$

7) Try to come up with your own system of equations that would have a solution of (6, 4).

2)  $\begin{cases} x + y = 25 \\ x \div y = 4 \end{cases}$

5)  $\begin{cases} 3x + y = 37 \\ 4x + y = 47 \end{cases}$

3)  $\begin{cases} xy = -24 \\ x + y = 5 \end{cases}$

6)  $\begin{cases} \sqrt{x} = y \\ x + y = 42 \end{cases}$

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