Algebra II Solving Systems of Equations - Exploration

Working with a partner, discover the solution to these equation pairs. The solution is the point (or points) that the lines have in common. Report "NO SOLUTION," if appropriate.

$$\begin{cases} 2x - y = 3 \\ y + x = 6 \end{cases}$$

$$\begin{cases} y - 4x = -7 \\ 5x + y = -6 \end{cases}$$

3. 4. 5.
$$\begin{cases} 2x - y = 3 \\ y + x = 6 \end{cases} \begin{cases} y - 4x = -7 \\ 5x + y = -6 \end{cases} \begin{cases} 5y - 5x = 10 \\ 3x + 10 = 2y \end{cases} \begin{cases} y = 3 - x \\ 6x + 2y = 2 \end{cases}$$

$$\begin{cases} y = 3 - x \\ 6x + 2y = 2 \end{cases}$$

6.
$$\begin{cases} y + x = 5 \\ 3x - 5y = -1 \end{cases}$$

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

6.
$$\begin{cases} y+x=5\\ 3x-5y=-1 \end{cases}$$
 7.
$$\begin{cases} 3y+6x=3\\ x-y=-7 \end{cases}$$
 8.
$$\begin{cases} y-x=0\\ 8x+4y=-24 \end{cases}$$
 9.
$$\begin{cases} x-y=-1\\ 4x-2y=2 \end{cases}$$

9.
$$\begin{cases} x - y = -1 \\ 4x - 2y = 3 \end{cases}$$

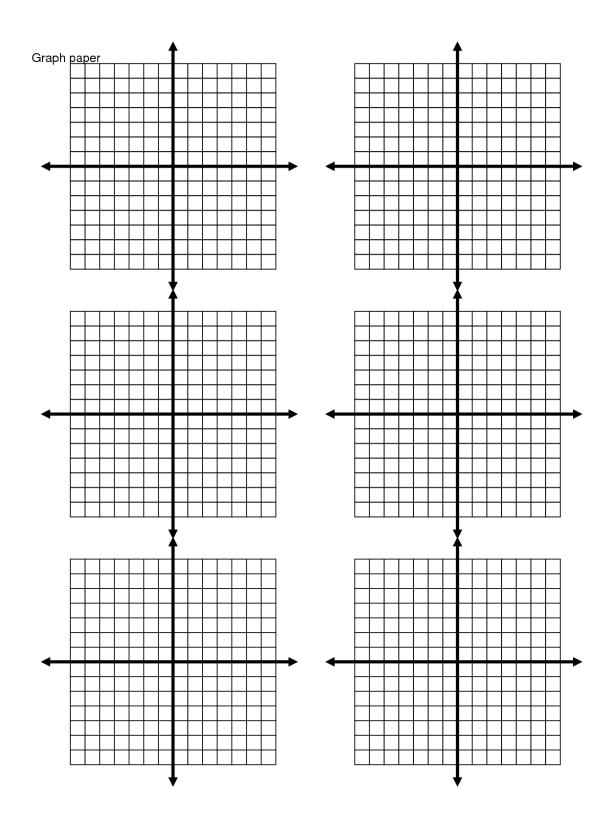
10.
$$\begin{cases} 7x + y = 13 \\ 30 & 12 \end{cases}$$

11.
$$\begin{cases} 2x - 3y = -1 \\ 3y - 2x = 15 \end{cases}$$

12.
$$\begin{cases} 8y - 24x = 64 \\ 9y + 45x = 72 \end{cases}$$

10.
$$\begin{cases} 7x + y = 13 \\ 28x + 4y = -12 \end{cases}$$
 11.
$$\begin{cases} 2x - 3y = -15 \\ 3y - 2x = 15 \end{cases}$$
 12.
$$\begin{cases} 8y - 24x = 64 \\ 9y + 45x = 72 \end{cases}$$
 13.
$$\begin{cases} 2x + 2y = -10 \\ 4x + 4y = -16 \end{cases}$$

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