AGS 1 Name: _____

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Assignment 6.1 – System of equations

For examples 1 - 3, decide whether the given ordered pair is a solution to the system of equations.

1.
$$\begin{cases} y = 2x - 6 \\ x + y = 8 \\ (4,2) \end{cases}$$
 2.
$$\begin{cases} 3x + 5y = 18 \\ y = 7x - 4 \\ (1,3) \end{cases}$$
 3.
$$\begin{cases} -5x + y = 12 \\ y = -x \\ (-2,2) \end{cases}$$

For examples 4 - 9, solve each system by graphing. If the system does not exactly one solution, state whether it has no solution or infinitely many solutions.

4.
$$\begin{cases} y = \frac{1}{2}x + 3\\ y = -x + 6 \end{cases}$$
 5.
$$\begin{cases} y = 2x - 5\\ y = 3 - \frac{2}{3}x \end{cases}$$





6.
$$\begin{cases} y = 3(x+1) - 1 \\ y = 2 + 3x \end{cases}$$



Refresh your memory

Find the equation between the two points. Write in point-slope or slope-intercept form.