

Algebra I

6.1 Warm-Up #2

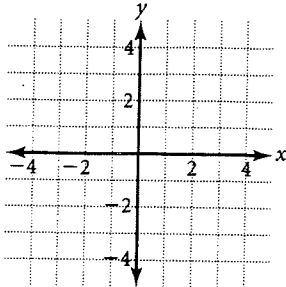
Solving Systems of Equations by Graphing.

NAME: _____

DATE: _____ HOUR: _____

For 1-3, find the solution to each system by graphing then verify your result using the equations.
All solutions will be *integer coordinates*.

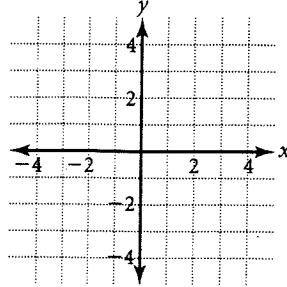
1. $\begin{cases} y = x - 1 \\ y = 3x + 1 \end{cases}$ _____



Verify your result.

$y = x - 1$ $y = 3x + 1$

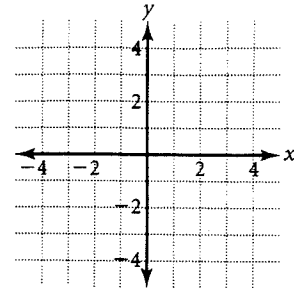
2. $\begin{cases} y = x - 2 \\ y = 3x - 4 \end{cases}$ _____



Verify your result.

$y = x - 2$ $y = 3x - 4$

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



Verify your result.

$y = 3x - 4$ $y = 2x - 2$

4. Name an advantage and a disadvantage of using **graphing** to solve a system of equations.

advantage :

disadvantage :

over

Determine whether the given point is a solution of the system of equations.

Show your work!

1. $(1, 3)$ $\begin{cases} y = 5x - 2 \\ y = -3x + 6 \end{cases}$ _____

2. $(7, 5)$ $\begin{cases} y = 2x + 1 \\ y = x - 2 \end{cases}$ _____

3. $(-1, 9)$ $\begin{cases} y = 14x + 5 \\ y = -7x + 2 \end{cases}$ _____

4. $(0, 4)$ $\begin{cases} y = 4x + 4 \\ y = 15x + 4 \end{cases}$ _____

5. $(1, 1)$ $\begin{cases} y = 9x - 8 \\ y = -14x + 15 \end{cases}$ _____

6. $(2, 13)$ $\begin{cases} y = 8x - 4 \\ y = x + 10 \end{cases}$ _____

7. $(5, -3)$ $\begin{cases} y = -x + 3 \\ y = 7x - 27 \end{cases}$ _____

8. $(16, 3)$ $\begin{cases} y = 4x - 61 \\ y = -2x + 35 \end{cases}$ _____

Determine whether the given point is a solution of the system of equations.

Show your work!

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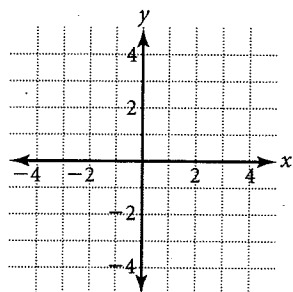
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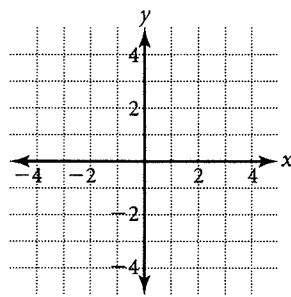
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Verify your result.

$y = x - 1$ $y = 3x + 1$

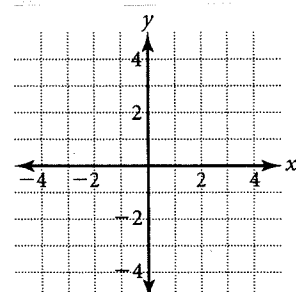
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disadvantage :