Algebra I
Worksheet 6.1 #1
Verifying Solutions

Name: _____

Date: _____ Hour: ____

Part I. Completion

A point is a **solution** to an equation if the ordered pair (x, y) makes the equation _____.
The point (**will / will not**) be on the line.

A point is **not a solution** to an equation if the ordered pair (x, y) makes the equation _____.
The point (**will / will not**) be on the line.

Part II. Verifying Solutions

Determine if the given point is a solution to the linear equation by graphing AND by substituting
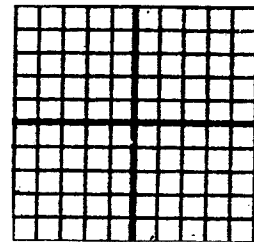the ordered pair (x, y) into the equation. Show your work.

1. (2, -1); y = x - 3.
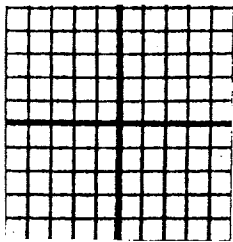
The point (is / is not) ON the line.

The point makes the equation _____.

$$\square = \square - 3$$

The point (is / is not) a solution.
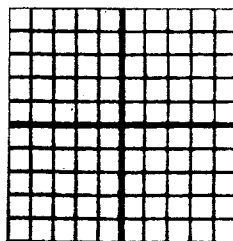
2. (0, 1); y = -3x + 1.

The point (is / is not) ON the line.

The point makes the equation _____.

$$\square = -3(\square) + 1$$

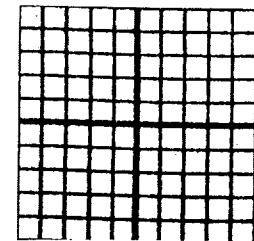The point (is / is not) a solution.

3. (2, 3); 2x - y = 4.

The point (is / is not) ON the line.

The point makes the equation _____.

$$2(\square) - \square = 4$$

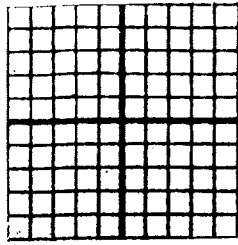The point (is / is not) a solution.

4. (3, 0); y = ⅔x - 1.

The point (is / is not) ON the line.

The point makes the equation _____.

$$\square = \frac{2}{3}(\square) - 1$$

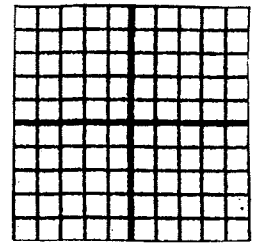The point (is / is not) a solution.

5. (-1, -1); 2x − 3y = -6.

The point (is / is not) ON the line.

The point makes the equation _____ .

$$2(\ \ )-3(\ \ )=-6$$

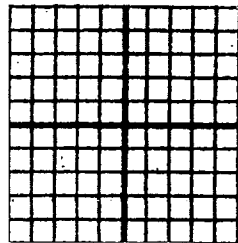The point (is / is not) a solution.

6. (2, 1); 4x + 3y = 12.

The point (is / is not) ON the line.

The point makes the equation _____ .

$$4(\ \ )+3(\ \ )=12$$

The point (is / is not) a solution.
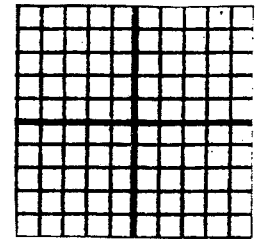

7. (2, 3); x − y = 1.

The point (is / is not) ON the line.

The point makes the equation _____ .

$$\square-\square=1$$

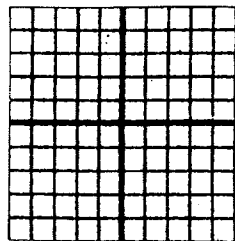The point (is / is not) a solution.

8. (2, 3); y = 3x − 3.

The point (is / is not) ON the line.

The point makes the equation _____ .

$$y=3(\ \ )-3$$

The point (is / is not) a solution.
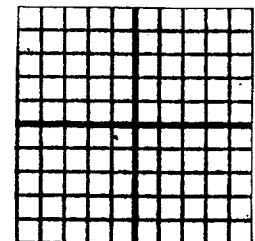

9. (3, 1); y = ⅓x − 2.

The point (is / is not) ON the line.

The point makes the equation _____ .

$$y=\tfrac{1}{3}(\ \ )-2$$

The point (is / is not) a solution.

10. (4, 3); y = -¾x + 3.

The point (is / is not) ON the line.

The point makes the equation _____ .

$$y=\tfrac{-3}{4}(\ \ )+3$$

The point (is / is not) a solution.