Solution or Not? – Part I



1) a) Plot the points (0, 1), (-1, 0), (-5, -4), (1, 2) and (3, 4). Connect the points using a ruler.

b) Name two other ordered pairs that are on the line (,) and (,).

c) I know the two points are *solutions* because ______.

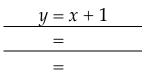
All of the points that you plotted, and the two you wrote down in question *b* are called *solutions*.

d) A coordinate that is *not* a **solution**

is: (,). It is *not* a **solution**

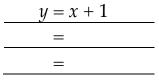
because ______.

e) The equation for the line you graphed above is: y = x + 1. Substitute in the point (1, 2) into the equation simplify.

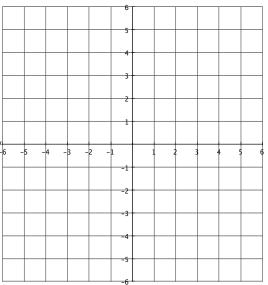


Because both sides of the equation are *equivalent*, we know the point (1, 2) (circle) *is* or *is not* a **solution**. We can also say the equation is *true*.

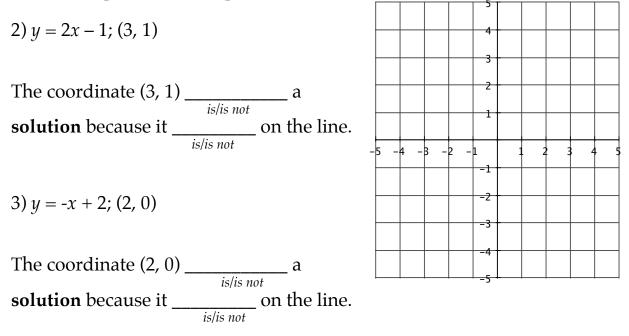
f) Substitute in the coordinate you wrote in *d*, which is *not* a **solution**.



I know that (,) (coordinate from d) is *not* a solution (false) because when I substituted the values in, the right and left side were (circle) equivalent or not equivalent making the equation false.



Directions: For the following 2 problems, state if the ordered pair (coordinate) is a *solution* or *not a solution* of the given equation. Verify by **graphing** and explain why it is or is not a solution. Use the same coordinate plane for both problems.



Directions: For the following 2 problems, state if the ordered pair (coordinate) is a *solution* or *not a solution* of the given equation. Verify by using **substitution** and explain why it is or is not a solution.

4) y = -3x + 10; (3, 1) The coordinate (3, 1) _____ (*is/is not*) a **solution** because it makes the equation _____ (*true/false*).

5) y = x + 2; (2, 0) The coordinate (2, 0) (*is/is not*) a **solution** because it makes the equation (*true/false*).