Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_

**6.0A Graphing Linear Equations Using X/Y Tables\_Classwork**

*Objective: graph linear equations using x/y tables. CC.SS.8.EE.5*

*HW: 6.0A worksheet*

An ordered pair is a solution of an equation when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| **Step 1:** | Plug in the value for x and y into the equation and simplify. |
| **Step 2:** | If the values are equal to each other, then the ordered pair is a solution of the equation. If the values are not equal to each other, then the ordered pair is NOT a solution of the equation.  |

*Helpful videos:*  [*https://www.youtube.com/watch?v=3f1vYgM0qzo*](%09https%3A//www.youtube.com/watch?v=3f1vYgM0qzo)

***Part 1:*** *Tell whether the ordered pair is a solution of the equation. Just substitute the given x and y to see if the equation “works”. Write “solution” if it works and “not solution” if it doesn’t.*

|  |  |  |
| --- | --- | --- |
| 1.$$y=2x+3;(4, 11)$$ | 2.$$7x-y=2;(1, -2)$$ | 3.$$y=-2-2x;(-1, 0)$$ |

*Helpful videos:* [*https://www.youtube.com/watch?v=9G4vmVvqCwQ*](https://www.youtube.com/watch?v=9G4vmVvqCwQ)

***Part 2:*** *Graph the linear equations a table of values.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.$$y=x-3$$

|  |  |  |  |
| --- | --- | --- | --- |
| **x** | **x – 3** | **y** | **(x, y)** |
| -5 |  |  |  |
| 0 |  |  |  |
| 4 |  |  |  |

 |  |
| 2.$$y=-x+4$$

|  |  |  |  |
| --- | --- | --- | --- |
| **x** | **-x + 4** | **y** | **(x, y)** |
| -3 |  |  |  |
| 0 |  |  |  |
| 7 |  |  |  |

 |  |
| 3.$$y=3x-1$$

|  |  |  |  |
| --- | --- | --- | --- |
| **x** | $$3x-1$$ | **y** | **(x, y)** |
| -2 |  |  |  |
| 0 |  |  |  |
| 2 |  |  |  |

 |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4.

|  |  |
| --- | --- |
| **x** | **y** |
| 2 | -2 |
| 2 | 0 |
| 2 | 5 |

 | What do you notice about the values from the table and the graph? | 5.

|  |  |
| --- | --- |
| **x** | **y** |
| -2 | 2 |
| 0 | 2 |
| 5 | 2 |

 | What do you notice about the values from the table and the graph? |