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://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. | 2. | 3. |

*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.   |  |  |  |  | | --- | --- | --- | --- | | **x** | **x – 3** | **y** | **(x, y)** | | -5 |  |  |  | | 0 |  |  |  | | 4 |  |  |  | |  |
| 2.   |  |  |  |  | | --- | --- | --- | --- | | **x** | **-x + 4** | **y** | **(x, y)** | | -3 |  |  |  | | 0 |  |  |  | | 7 |  |  |  | |  |
| 3.   |  |  |  |  | | --- | --- | --- | --- | | **x** |  | **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? |