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

**6.1B NOTES – Graphing Linear Equations**

*Objective: Graph linear equations using a table. Understand that lines represent solutions of linear equations (CCSS: 8.EE.5) HW: 6.1B worksheet*

***\*\*\*\*\*\*\*WARM-UP: Solve for y to get in the form of y = mx + b***

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. -2x + y = 7 | 2. 3x – y = 1 | 3.   |  |  |  |  | | --- | --- | --- | --- | | **x** |  | **y** | **(x,y)** | | 5 |  |  |  | | 0 |  |  |  | | -5 |  |  |  | |

*For the graphs below, remember to label your x- & y-axis and use equal intervals*

|  |  |
| --- | --- |
| 1. You have $100 in your savings account 2. Complete the table below using   **y=20x + 100**     1. Graph the linear equation y = 20x + 100 that represents the balance in your account. 2. When will you have $180 in your account? | and plan to deposit $20 each month. |
| 1. The equation y=3x+3 represents the   that weighs x pounds.   1. Complete the table below using   y=3x+3     1. Graph the linear equation 2. Use the equation to find exactly how much it costs to mail the package if it is 1.126 lbs. | cost y (in dollars) of mailing a package |

For the equations below, choose three x-values, complete the tables, and make the graphs below.

If the 3 points do not connect to make a straight line, review your calculations on the table and/or review how you graphed the ordered pair.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **y =** |  | |  |
|  |  | |  |
| 1. **y = -4** | | 1. **x = 5** | |