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. $y=\frac{4}{5}x$

|  |  |  |  |
| --- | --- | --- | --- |
| **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+31. 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 =** $-2x+2$

 |  |  |
| 1. $y= \frac{1}{3}x $

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

 | 1. **x = 5**

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