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

**4.4B Graphing Linear Equations in Slope Intercept Form\_Classwork**

 *Objective: Analyze graphs to determine slope, y-intercept, x-intercept and equation of the line. CCSS: 8.EE.6*

 *HW: 4.4B worksheet*

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| **p. 168**    |

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| **1a**. **Graph** $y=x-4$**. Identify the x-intercept.** **1b. Graph** $y= -\frac{1}{2}x+1$**. Identify the x-intercept.**  slope: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_ slope: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_ $\frac{rise}{run}= \frac{y}{x}$ $\frac{rise}{run}= \frac{y}{x}$ x-intercept: \_\_\_\_\_\_ x-intercept: \_\_\_\_\_\_     |
| **2a**. **Graph** $y=-2x$**. Identify the x-intercept.** **2b. Graph** $y= \frac{1}{3}x-2$**. Identify the x-intercept.**  slope: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_ slope: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_ $\frac{rise}{run}= \frac{y}{x}$ $\frac{rise}{run}= \frac{y}{x}$ x-intercept: \_\_\_\_\_\_ x-intercept: \_\_\_\_\_\_      |

**For the equation -3x + 2y = -8**

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| 1. Solve for y | 2. Identify the slope and y-intercept m = \_\_\_\_\_\_\_ (slope) b = \_\_\_\_\_\_\_ (y-intercept) |
| 3. Graph | 4. Identify 3 solutions of the equation  (pick 3 ordered pairs that lie on the  line) |
| 5. Pick one of the points from #4 and prove algebraically that it is a solution (HINT: Substitute the x-coordinate for “x” and the y-coordinate for “y” into the  equation) |