Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_Period: \_\_\_\_\_\_Date: \_\_\_\_\_\_

**6.3A Linear Functions\_Classwork**

*Objective: Interpret y = mx + b as defining a linear function. Writing linear functions from tables. CCSS: 8.F.3*

*HW: (6.3A) p. 261 #4 – 10, 20 - 23 (Solutions on p. A29)*

**A LINEAR FUNCTION** can be written in the form **y = mx + b**, where m is the slope and b is the y-intercept.

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| **Writing a Linear Function Using a Graph**  - How is the slope determined from the graph?  **FIND**  - How is the y-intercept determined from the graph?    **IT IS THE POINT THAT LIES ON THE Y-AXIS** | **EXAMPLE 2: Writing a Linear Function Using a Table**  - How is the slope determined from the table?  **FIND**  - How is the y-intercept determined from the table?    **WHEN x = 0, THE “y” IS THE Y-INTERCEPT.**  **FOR EXAMPLE, (0,2) THE Y-INT. OR b is 2** |
| **EXAMPLE 1: Use the graph to write a linear function that relates y to x.** | **EXAMPLE 2: Use the table to write a linear function that relates y to x.** |
| **EXAMPLE 3: Use the graph to write a linear function that relates y to x.** | **EXAMPLE 4: Use the table to write a linear function that relates y to x.** |



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| 3. | 4. |
| 5. | 6. |
| 7. | 8. |

WARM UP

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| 1. Graph y = -3 | 2. Graph x = 4 | 3. Graph |