**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U6 HW #1** *Writing Linear Equations From a Graph and a Table*

**Directions:** Write the equation of each line in slope-intercept form.

1. The slope of the line is . The *y*-intercept is (0, 1).
2. The slope of the line is . The *y*-intercept is (0, 6).
3. The slope of the line is . The *y*-intercept is (0, 0).
4. The slope of the line is . The *y*-intercept is (0, 10).

|  |  |
| --- | --- |
| *m*: \_\_\_\_\_ *b*: \_\_\_\_\_\_\_  Equation: | *m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_  Equation: |

|  |  |  |  |
| --- | --- | --- | --- |
| *m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_  Equation: | | *m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_  Equation: | |
| |  |  | | --- | --- | | *x* | *y* | | 0 | 2 | | 1 | 0 | | 2 | -2 | | 3 | -4 |   *m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_  Equation: | |  |  | | --- | --- | | *x* | *y* | | -3 | 3 | | 0 | 4 | | 3 | 5 | | 6 | 6 |   *m*: \_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_  Equation: | | |  |  | | --- | --- | | *x* | *y* | | -1 | 5 | | 0 | 5 | | 1 | 5 | | 2 | 5 |   *m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_  Equation: |

**Find, Fix, and Justify**: In each of the following problems, a common mistake of writing the equation of a line has been made. Describe the error and write the correct equation.

|  |  |
| --- | --- |
| 1. Incorrect Equation:     Mistake:  Correct Equation: | 1. Incorrect Equation:     Mistake:  Correct Equation: |
| 1. Incorrect Equation:   Mistake:  Correct Equation: | 1. Incorrect Equation:   Mistake:  Correct Equation: |