**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 $5$. The *y*-intercept is (0, $-$1).
2. The slope of the line is $-1$. The *y*-intercept is (0, $-$6).
3. The slope of the line is $\frac{1}{4}$. The *y*-intercept is (0, 0).
4. The slope of the line is $-\frac{3}{5}$. The *y*-intercept is (0, 10).

|  |  |
| --- | --- |
| 1.

*m*: \_\_\_\_\_ *b*: \_\_\_\_\_\_\_Equation:  | 1.

*m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_Equation:  |

|  |  |
| --- | --- |
| 1.

*m*: \_\_\_\_\_\_ *b*: \_\_\_\_\_\_\_\_Equation: | 1.

*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: $y=-2x+3$

Mistake: Correct Equation:  | 1. Incorrect Equation: $y=x+\frac{1}{2}$

Mistake: Correct Equation:  |
| 1. Incorrect Equation: $y=\frac{1}{3}x-4 $

 Mistake: Correct Equation:  | 1. Incorrect Equation: $y=-2x+2$

 Mistake: Correct Equation:  |