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

**U6 CWK #3** *Write Equations for Lines Given Two Points*

1. Describe how to write the equation of a line in slope-intercept form when you are given two points on the line. (Use complete sentences and examples/formulas.)

**Directions:** Write the equation of the line that passes through the points given.

|  |  |  |
| --- | --- | --- |
| 1. (0, 4), ($-$1, 3)
 | 1. ($-$5, 9), ($-$2, 0)
 | 1. (0, 0), (3, $-$6)
 |
| 1. (2, 2), (4, 3)
 | 1. (1, 2), (1, $-$6)
 | 1. ($-$2, 4), (0, 4)
 |

**Directions:** Write an equation for a line from the information given in each table.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| *x* | *y* |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |
| 6 | 11 |

8.Equation:  |

|  |  |
| --- | --- |
| *x* | *y* |
| 2 | 3 |
| 4 | 6 |
| 6 | 9 |
| 8 | 12 |

Equation:  | Equation:

|  |  |
| --- | --- |
| *x* | *y* |
| $-$12 | $-$1 |
| $-$10 | $-$1 |
| $-$8 | $-$1 |
| $-$6 | $-$1 |

 |

**Directions:** Write an equation for the line given.

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

**Equation:** | 12.Equation:  |

1. **Find, Fix, and Justify:** Jamal was asked to write an equation for the line on the graph below. Jamal’s work in shown to the right of the graph, he has made a common mistake in writing the equation for the line. Find Jamal’s mistake and explain what he did wrong. Then write the correct equation for the line.

|  |  |  |
| --- | --- | --- |
|  |   |  |