CMIC 1 – Linear Functions without Context Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

U3L1I1c HW Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the following equations, fill in the table, graph the given function, write a NOW-NEXT rule and answer any additional questions. This is focusing on the relationships between tables of values, graphs and symbolic rules for linear equations.

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| 1) |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | X | -1 | 0 | 1 | 2 | 3 | 4 | | y |  |  |  |  |  |  | | |  | |
|  |  | | NOW-NEXT Rule: | |
|  | 1. Label the coordinates of three points A, B and C on the graph. Calculate the slopes of the segments between points *A* and *B*, between points *B* and *C*, and between points *A* and *C*. | | | |
|  |  | *Slope between A and B:* | | *Slope between B and C:* | | *Slope between A and C:* |
|  |  |  | |  | |  |

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| 2) |  | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | X | -1 | 0 | 1 | 2 | 3 | 4 | | y |  |  |  |  |  |  | |  |
|  |  | NOW-NEXT Rule: |
|  | 1. Locate the y-intercept on the graph. What are the coordinates of the y-intercept for this equation? | |

3) Determine if the following situation is a linear relationship. Provide evidence of your thinking.

*If a race car averages 150 miles per hour, the distance d covered is a function for driving time t.*

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| **Spring 1** | **Spring 2** |
|  | Coordinates of the y-intercept:  Slope of the line plotted: |
| Coordinates of the y-intercept:  Slope of the line plotted: |
| **Spring 3** | **Spring 4** |
| Coordinates of the y-intercept:  Slope of the line plotted: | Coordinates of the y-intercept:  Slope of the line plotted: |