**OBJECTIVE: S.W.B.A.T. understand the relationship of lines in the coordinate plane**

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| **Graph** | | **Table** |
| n    m | | **Directions**: Create a table of values that represent each line. Use the table of values to calculate the slope of each line using 2 methods: (rise/run) and the slope of two points formula.  *Line m*   |  |  | | --- | --- | | *x* | *y* | |  |  | |  |  | |  |  |   *Line n*   |  |  | | --- | --- | | *x* | *y* | |  |  | |  |  | |  |  |   Slope line *m*:  Slope line *n*: |
| **Algebraic Representation** | | **Verbal Representation** |
| **Directions** Write the equation of line m and the equation of line n. Show all work!  **Line *m:***  **Line *n:*** | | **Directions**: State the relationship between lines m and n. Make sure to include evidence to support your statement and mathematical terminology (slope, y-intercept, reciprocal, etc). |
| **Graph** | **Table** | | |
| l  k | **Directions**: Create a table of values that represent each line. Use the table of values to calculate the slope of each line using 2 methods: (rise/run) and the slope of two points formula.  *Line l*   |  |  | | --- | --- | | *x* | *y* | |  |  | |  |  | |  |  |   *Line k*   |  |  | | --- | --- | | *x* | *y* | |  |  | |  |  | |  |  |   Slope line *l*:  Slope line *k*: | | |
| **Algebraic Representation** | **Verbal Representation** | | |
| **Directions** Write the equation of line m and the equation of line n. Show all work!  **Line *l:***  **Line *k:*** | **Directions**: State the relationship between lines m and n. Make sure to include evidence to support your statement and mathematical terminology (slope, y-intercept, reciprocal, etc). | | |

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| **Summary:**   1. Describe the difference between parallel and coinciding lines. Use terminology learned in class. 2. Describe the difference between perpendicular and intersecting lines. Use terminology learned in class. |