Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_

**4.2C Slopes of Parallel and Perpendicular Lines\_Classwork**

* FOR NEXT YEAR: Include the y-intercept of all problems

For each graph, identify the slopes and y-intercepts of each line. Then write the equation in slope-intercept form (y = mx + b). What do you notice about the slopes and y-intercepts of each set? Is there a pattern?

|  |  |
| --- | --- |
| 1.    **Line 2**  **Line 1** | 2. (DO IT WITH THE STUDENTS)    **Line 4**  **Line 3** |
| 3. | 4.    **Line 6**  **Line 5** |
| 5. What do you notice about the slopes and y-intercepts of each set? Is there are a pattern?    Two lines are parallel … | |

|  |  |
| --- | --- |
| 6. (DO IT WITH THE STUDENTS)    **Line 8**  **Line 7** | 7.    **Line 10**  **Line 9** |
| 8.    **Line 12**  **Line 11** | 9.    none |
| 10. What do you notice about the slopes and y-intercepts of each set? Is there are a pattern?    Two lines are perpendicular…. | |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_

**4.2C Slopes of Parallel and Perpendicular Lines\_Classwork**

LESSON LAUNCH

Find the negative reciprocal:

a)  ----🡪 \_\_\_\_



b) 2 ----🡪 \_\_\_\_

c) -1 ----🡪 \_\_\_\_

|  |
| --- |
| READ EXAMPLE 1 (P. 156) AND EXAMPLE 2 (P. 157).  Below are the Extra Example Videos  1. 2. |
| **Friday CW: (4.2 ext.) p. 156 #1 – 12 ALL (do assignment in BIM)**  #6 #12  Image result for graph Image result for graph |

**SUMMARY**

Identify whether the given lines are *parallel*, *perpendicular* or *neither*. Justify your answer.

|  |  |  |
| --- | --- | --- |
| Equations | *Parallel*, *Perpendicular* or *Neither* | Justification |
| , |  |  |
| y |  |  |
|  |  |  |
|  |  |  |
|  |  |  |