Algebra 1B: Mrs. Tilus Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 6- Day 2: Parallel and Perpendicular Worksheet

**Vocabulary Check:**

* To decide if lines are parallel or perpendicular, first write the lines in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

form, which is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* Parallel lines have slopes that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Perpendicular lines have slopes that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

State whether the lines are parallel, perpendicular, or neither. (Make sure to show your work!)

1. 2. 3.

4. 5. 6.

7. 8. 9.

Write an equation of the line that passes through the given point and is perpendicular to the given equation.

10. 11.

Write an equation of the line that passes through the given point and is parallel to the given equation.

12. 13.