Math 1 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5-2 Practice** Date\_\_\_\_\_\_\_\_

* *I can find the equation of a line parallel to another line through a given coordinate.*
* *I can find the equation of a line perpendicular to another line through a given coordinate.*

1. State the slope of the line parallel to. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. State the slope of the line perpendicular to . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. State the slope of the line parallel to. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. State the slope of the line perpendicular to . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Write the equation of the line in slope-intercept form through (2, -1) and parallel to .

6. Write the equation of the line in slope-intercept form through (1, -5) & perpendicular to .

7. Write the equation of the line in point-slope form through (2, –4) & parallel to.

8. Write the equation of the line in point-slope form through (-1, 5) & perpendicular to.

9. Write the equation of the line parallel to the *x*-axis through the point (4, 7).

10. The slope of a line is , and the line passes through the points (2, 4) and (***a,*** 7). Find *a.*