8.7 Homework

Use points to write the equation of the line in:

a. Point-Slope Form

Or

b. Slope Intercept Form

Graph the line below:

1. Write an equation of a line that is parallel to the above line and passes through point . Write in slope intercept form. Graph the line above on the above graph in a different color.

2. Write and equation of a line that is perpendicular to the line in problem 1 and passes through . Write in slope intercept form. Graph the line in a different color on the graph.

3. Describe the similarities and differences in the equations of parallel and perpendicular lines.

Parallel lines have the same slope perpendicular lines have opposite reciprocal slopes.