Name: _____

Score: _____ /15

Worksheet 7 (Due Fri, May 16)

Math 1060Q – Summer 2014

Professor Hohn

You must show all of your work to receive full credit!

1. Find the slope of the line that contains the points $(-1, 4)$ and $(2, -3)$.

2. Find a number t such that the line containing the points $(t, -2)$ and $(-3, 4)$ has slope -5.

3. Find the equation of the line in the xy-plane that contains the point $(-3, 2)$ and this is parallel to the line $y = 7x - +4$.

4. Find the equation of the line in the xy-plane that has slope $\frac{1}{2}$ and contains the point $(4, 1)$.

5. Find the equation of the line that contains the point $(5, 3)$ and that is parallel to the line containing the points $(-1, 1)$ and $(4, 3)$.

6. Find the intersection in the xy-plane of the lines $y = -2x + 1$ and $y = 4x - 3$.

7. Find the slope of the line that contains the points $(2, 11)$ and $(6, -5)$.

8. Find a number t such that the point $(-2, t)$ is on the line containing the points $(5, -2)$ and $(10, -8)$.

9. Find the equation of the line in the xy-plane that contains the point $(-3, 1)$ and that is perpendicular to the line $y = -2x + 5$.

10. Where does the line in the xy-plane given by the equation

$$\frac{x}{2} + \frac{y}{1} = 1$$

intersect the x-axis? The y-axis?

11. Where does the line in the xy-plane given by the equation

$$\frac{x}{-3} + \frac{y}{5} = 1$$

intersect the x-axis? The y-axis?