

Math 9 – Analytic Geometry

Name: _____

Lesson #5: Parallel and Perpendicular Slopes – Homework

Due Date: _____ 5T____

1. Identify whether each pair of lines is parallel, perpendicular, or neither.

a) $x - y + 1 = 0$
 $4x + 4y + 1 = 0$

b) $3x - 2y + 12 = 0$
 $-2x - 3y - 12 = 0$

c) $2x + 5y - 13 = 0$
 $2x - 5y + 23 = 0$

d) $x + 9y + 1 = 0$
 $9x + y + 1 = 0$

2. Given the points $A(-8, -2)$, $B(-2, 2)$, $C(6, 4)$, and $D(8, 1)$, determine whether m_{AB} and m_{CD} are parallel, perpendicular, or neither.

6. Determine the Standard Form of the line parallel to $x + 9y - 2 = 0$ and has the same x-intercept as the line $2x - 9y + 27 = 0$.

7. Determine the equation in any form which is perpendicular to $y - 4 = 0$ and passes through $(-1, 6)$.

8. Determine the equation in any form which is parallel to $x + 3 = 0$ and passes through $(-6, -7)$.