MTH1W Analytic Geometry Name: _____

HW7.3 Unique Slopes and Lines Due Date: _____ 5T___

1. Identify whether each pair of lines is parallel, perpendicular, or neither by finding and comparing the slopes.

a) $x - y + 1 = 0$
$8x + 4y + 1 = 0$

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

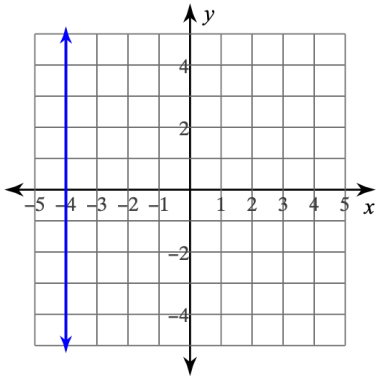
c) $2x + 5y - 13 = 0$
$2x - 5y + 23 = 0$

d) $2x + y + 3 = 0$
$6x + 3y - 15 = 0$

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.

3. Write the equations of the following lines:

a)



b)