**1.0 Geometry Pre-requisite Work Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**What is the slope and y-intercept of the following equations?**

1. y = -3x + 7
2. 4x + y = 10
3. -5x – 2y + 19 = 0

**Are the following lines parallel, perpendicular, coincidental, or neither?**

1. y = 2x + 6

3x + 6y = -12

1. y = 3x – 1

3x – y = 0

1. 6x – 2y = 18

-2x + 5y – 12 = 0

**Find the slope between the following points.**

1. (5, 4) and (-2, -7)
2. (-7, 4) and (-7, -11)
3. (-2, 6) and (3, 8)

**Write the equation in slope intercept form that passes through the following points.**

1. (3, -2) and (-1, 10)

**Solve for x.**

1. 4(x – 7) = 8x + 8

**Simplify the following radical**

1. 
2. 
3. 

**Factor completely.**

1. x2 – 9x + 20
2. 3x2 – 75
3. 6x2 + 13x + 5

**Graph the following equations on the graph provided on the back of the paper.**

1. 
2. y = x
3. x = -4