**Graphing equations using the slope and y-intercept**

**Write the following equations in slope-intercept form. Identify the slope and y-intercept and use them to graph the equation (make sure there are 5 points total).**

1. x + 3y = 6

**slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**slope: \_\_\_\_\_\_\_\_\_\_**

**y-intercept: \_\_\_\_\_\_\_\_\_\_**

1. 12x + 4y = 16

**slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**slope: \_\_\_\_\_\_\_\_\_\_**

**y-intercept: \_\_\_\_\_\_\_\_\_\_**

1. -4x + 8y = 8

**slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**slope: \_\_\_\_\_\_\_\_\_\_**

**y-intercept: \_\_\_\_\_\_\_\_\_\_**

1. 6x – 3y = 9

**slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**slope: \_\_\_\_\_\_\_\_\_\_**

**y-intercept: \_\_\_\_\_\_\_\_\_\_**

1. x + 4y = -4

**slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**slope: \_\_\_\_\_\_\_\_\_\_**

**y-intercept: \_\_\_\_\_\_\_\_\_\_**

1. 4x + 6y = -12

**slope-intercept form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**slope: \_\_\_\_\_\_\_\_\_\_**

**y-intercept: \_\_\_\_\_\_\_\_\_\_**