Module 4 – Linear Functions and Their Graphs
Lesson 3 – Slope of a Line
Homework 1

Name _____

Answer each section.

Fill in the blanks.

1. The steepness of a line is called the _____ of a line.

2. The change in y of a slope is also called the _____ while the change

   in x is called the _____.

3. _____ is the variable that is commonly used as the slope of a line.

4. $Slope_{(m)} =$ _____

Determine if the line slopes *upwards*, *downward*, *horizontally*, or *vertically*.

1. $x = \dfrac{5}{9}$　　　　_____

2. $y = \dfrac{3}{4}x + 5$　　　_____

3. $y = -\dfrac{1}{2}x + 0.01$　_____

4. $y = 3$　　　　_____

Arrange the following equations into slope-intercept form *(y = mx + b)* and identify their slope and y-intercept.

Equation	Slope-Intercept Form	Slope	Y-Intercept
$2y = -10x - 14$			
$4y - 8x = -24$			
$7y = 14x + 1$			
$11 + y = -8x$			

Find the slope of the line that goes through each pair of points. **Show all work.**

1. (-3, 5) and (4, 7) _____

2. (5, -6) and (1, -6) _____

3. (2, -5) and (2, -1) _____

4. (1, -6) and (-4, 4) _____