Foundations of Math 1 5.4 Point-Slope Form Unit 6 Day 3

**Point Slope Form:** An equation of a nonvertical line with slope *m* and through point (x1, y1)

(y – y1) = m(x – x1)

**Writing an Equation in Point-Slope Form**

1. A line passes through (-3, 6) and has slope -5. What is an equation of the line?
2. A line passes through (8, -4) and has a slope of 2/3. What is an equation in point-slope form of the line?

**Graphing Using Point-Slope Form**

1. What is the graph of the equation:

$$y-1=\frac{2}{3}(x-2)$$



1. What is the graph of the equation:

$ y+7=-\frac{4}{5}(x-4)$

**Using Two Points to Write an Equation**

What is the equation of the line to the right?

**Using a Table to Write an Equation**

The table shows the altitude of a hot0air balloon during its linear descent. What equation in slope-intercept form gives the balloon’s altitude at any time? What do the slope and y-intercept represent?