**Writing Linear Equations: Translating Between Standard Form and Slope Intercept Form**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope Intercept Form:

Point Slope Form:

Standard Form:

1. Write each equation of a line in slope intercept form. Identify the slope and y-intercept.
   1. 3x-4y=12
   2. 7x+2y=10
2. Write each equation of a line in standard form.
3. James wants to go and play a round of golf. It costs him $15 to play at a local golf course. Before he plays a round of golf he likes to hit golf balls at the driving range where it costs $3 for a small bucket of balls. Write an equation to model this situation in standard form. What do the variables, the slope, and the y-intercept represent in this situation?

Independent Practice

1. Write each equation of a line in slope intercept form. Identify the slope and y-intercept.
   1. 5x-6y=-3
   2. 9x+3y=-2
2. Write each equation of a line in standard form.
   1. -1
3. Julie goes to the gas station and purchases a car wash for $8 and gas for her car at $3.50 per gallon. Write an equation in standard form that models this situation. What do the variables, the slope, and the y-intercept represent in this situation?