

Date: _____

5.3 Slope-Point Form**Recall:****Slope-Intercept Form:** $y = mx + b$ **General Form:** $Ax + By + C = 0$ **Slope-Point Form:**

$$y - y_1 = m(x - x_1)$$

where m = slope& (x_1, y_1) is a point on the line

Ex. Use slope-point form to write an equation of the line through $(-2, 5)$ with slope -3 , then express the equation in slope intercept form.

Ex. Determine the slope and a point on the line: $y - 5 = -2(x + 3)$.

Ex. Use slope-point form to write an equation of the line through $(3, -4)$ and $(5, -1)$, then rewrite the equation in general form.