2.4. Advanced Algebra

DATE:
Writing Equations
With your partner, fill in the blank to recall your prior knowledge.

- Given the slope-intercept form $y=m x+b, m$ represents the $\qquad$ slope and $b$ represents the $\qquad$ $y$-intercept
- The slope formula is

$$
m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}} \text { or } \frac{y_{1}-y_{2}}{x_{1}-x_{1}}
$$

- The slopes of parallel lines are $\qquad$ equal .
- The slopes of perpendicular lines are $\qquad$ opposite reciprocals and their product is always equal to $\qquad$ -1 .

Example 1
Write an equation in slope-intercept form of the line with slope $-\frac{3}{2}$ that passes through $(-4,1)$.

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