

SPARK Hybrid Education Center

Mathematics | Week 2: Slope-Intercept Form | Upper Level

Name: _____ Date: _____

Directions: Solve each problem. Show your work in the space provided. Circle your final answer.

1. Identify slope and y-intercept: $y = 3x - 5$
2. Identify slope and y-intercept: $y = -2x + 7$
3. Graph $y = 2x + 1$ (list 3 points).
4. Write the equation: slope = 4, y-intercept = -3.
5. Write the equation: slope = $-1/2$, passes through (0, 6).
6. What is the slope of a line parallel to $y = 5x - 2$?
7. Find the y-intercept of the line through (2, 7) with slope 3.
8. Which equation has a steeper slope: $y = 4x + 1$ or $y = 3x - 2$?

--- Answer Key (Cut before distributing) ---

1. $m=3$, $b=-5$
2. $m=-2$, $b=7$
3. (0,1),(1,3),(2,5)
4. $y = 4x - 3$
5. $y = -x/2 + 6$
6. $m = 5$
7. $b = 1$ ($y = 3x + 1$)
8. $y = 4x + 1$

