

# SPARK Hybrid Education Center

## Mathematics | Week 1: Coordinate Plane & Slope | Upper Level

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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

1. Plot points A(3,4), B(-2,5), C(-4,-3), D(1,-6) and name their quadrants.
2. Find the slope between (2,3) and (6,11).
3. Find the slope between (-1,4) and (3,-4).
4. Is the slope positive, negative, zero, or undefined for a horizontal line?
5. A line passes through (0,2) and (4,6). Write its equation in  $y=mx+b$  form.
6. Find the slope: (-3, 1) and (5, 1). What type of line is this?
7. Find slope between (2, 5) and (2, -3). What type of line?
8. A ramp rises 3 feet over a horizontal distance of 12 feet. What is the slope?

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

1. A: Q1, B: Q2, C: Q3, D: Q4
2.  $m = 2$
3.  $m = -2$
4. Zero slope
5.  $y = x + 2$
6.  $m = 0$ ; horizontal line
7. Undefined; vertical line
8.  $\frac{1}{4}$

