

Step 1: Start at the left-most point, which is point S (1, 3).

Step 2: Determine the rise (1).

Step 3: Determine the run (1).

Step 4: Using the "rise over run" definition of slope, place 1 on top of the fraction and 1 on the bottom of the fraction.

$$m=\frac{1}{1}=1$$

Answer: m = 1

Algebraically:

(1) (2) (3)
$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad m = \frac{3 - 4}{1 - 2} \qquad m = \frac{-1}{-1}$$
$$m = 1$$

Step 1: Write the formula.

Step 2: Substitute the siven points into the formula Let (2.44 = (2.44) and (4.34-(2.44))

Step 3: Simplify the fraction.

Answer: m = 1

An activity that can reinforce the concept of slope is to have students randomly plot two points on a coordinate system and then find the slope graphically. They can check their answers by substituting the two points into the slope formula.