Examples of finding the slope of a line

Example 1   Find the slope of the line that connects the ordered pairs (3,5) and (7, 12)

To find the slope, I use $m = \dfrac{y_2 - y_1}{x_2 - x_1}$

Subtract the y values and place that result over the difference in the x values.

$$\frac{12-5}{7-3} = \frac{7}{4}$$ The slope is 7/4

Example 2   Find the slope of the line that connects the ordered pairs (7, 8) and (2, 3)

Using $m = \dfrac{y_2 - y_1}{x_2 - x_1}$, we have $\dfrac{8-3}{7-2} = \dfrac{5}{5} = 1$

Example 3   Find the slope of the line that connects (2, – 3) and (–5, 8)

$$\frac{8-(-3)}{-5-2} = \frac{11}{-7}$$