

7.3 Key Concepts 1 Slope of Line Segment Given Two Points Worked Example

Example: Find the slope of the line passing through points A(-1, 2) and B(3, 7).

Solution:

$$\begin{aligned} m &= \frac{y_B - y_A}{x_B - x_A} \\ &= \frac{7 - 2}{3 - (-1)} \\ &= \frac{5}{4} \end{aligned}$$

The slope of the line is $\frac{5}{4}$.

Practice:

1. Find the slope of the line passing through points E(-6, 3) and F(3, -2).

2. Find the slope of the line passing through points P(-4, -3) and Q(3, 4).

Answers: 1. $-\frac{5}{9}$ 2. 1