

Slope Formula

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$$\frac{\text{change in } y}{\text{change in } x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope of the line that contains the following points:

¹
(-4, 7) and ²
(-6, -4)
_{x₁, y₁} _{x₂, y₂}

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - 7}{-6 - (-4)} = \frac{-11}{-2} = \frac{11}{2}$$

¹
(19, -2) and ²
(-11, 10)
_{x₁, y₁} _{x₂, y₂}

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{10 - (-2)}{-11 - 19} = \frac{12}{-30} = -\frac{2}{5}$$