

$$\frac{-6}{1} \left(\frac{2}{3}x + \frac{1}{2} \right)$$

$$\begin{aligned} & \frac{-2x}{1} \cdot \frac{2}{1} + \frac{-3x}{1} \cdot \frac{1}{1} \\ & \frac{-4}{1}x + \frac{-3}{1} = -4x + -3 \end{aligned}$$

$$\begin{matrix} (5, 6) \\ x_1, y_1 \end{matrix} \quad \begin{matrix} (-3, -2) \\ x_2, y_2 \end{matrix}$$

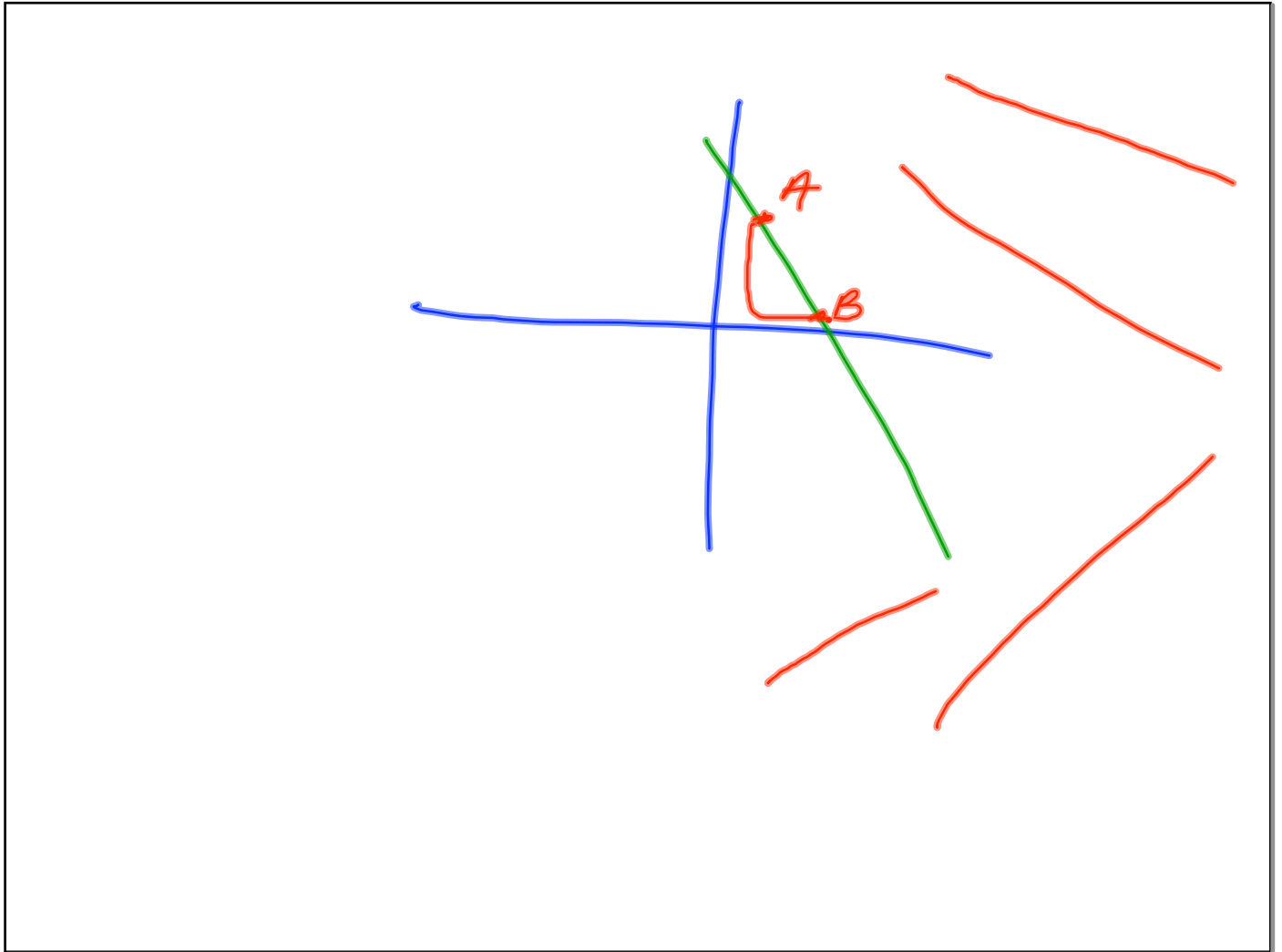
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{-2 - 6}{-3 - 5} = \frac{-8}{-8}$$

$$\frac{8}{8} = 1$$

$$\begin{matrix} (-5, -6) \\ x_1, y_1 \end{matrix} \quad \begin{matrix} (-3, -2) \\ x_2, y_2 \end{matrix}$$

$$\frac{-2 - (-6)}{-3 - (-5)} = \frac{-2 + 6}{-3 + 5} = \frac{4}{2} = 2$$



The screenshot shows the GeoGebra interface with a coordinate plane. Handwritten work includes the slope formula $m = \frac{y_2 - y_1}{x_2 - x_1}$ with values substituted to get $m = -2 - 2$ and $\frac{0 - 1}{1 - 1}$. A point $(-1, 2)$ is circled in blue. The final equation $y = -4x - 2$ is highlighted in green. The sidebar on the right shows a list of groups under 'Group1'.

GeoGebra

Lesson 5-3

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$m = \frac{0 - 1}{1 - 1}$

$m = -2 - 2$

$y = -4x - 2$

$(-1, 2)$

$(0, -2)$

Groups

Group1

1 $(-1, 2)$
Apr 29-9:32 AM

2 $(-1, 2)$
Apr 29-9:36 AM

3 $(-1, 2)$
Apr 29-9:44 AM

Input: α Command ...

$$y = -2x + 7$$

$$y = mx + b$$

$$m = -2$$
$$b = 7$$

$$m = 0$$

$$b = -9$$

$$y = -5x - 6$$