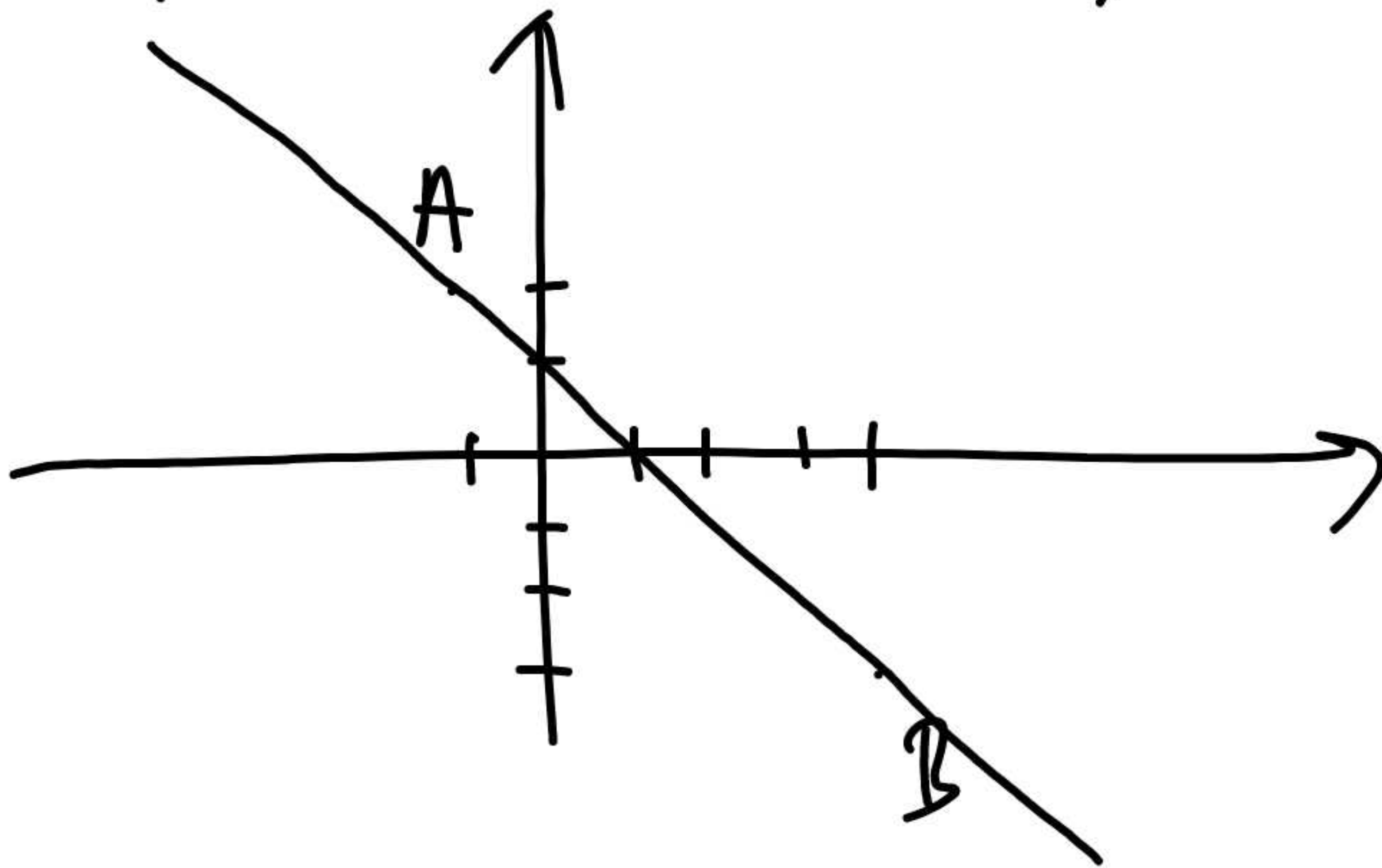


$$y = \underbrace{-\frac{1}{3}}_a x \underbrace{- 3}_b$$

A (-1, 2)

B (4, -3)

$$y = ax + b$$



$$A(-1, 2)$$

$$B(4, -3)$$

$$y = ax + b$$

$$\begin{cases} 2 = (-1) \cdot a + b \\ -3 = 4a + b \end{cases}$$

$$\begin{cases} 2 = -a + b \quad | \cdot (-1) \\ -3 = 4a + b \end{cases}$$

$$a = 1$$

$$+ \begin{cases} -2 = a - b \\ -3 = 4a + b \end{cases}$$

$$-5 = 5a \quad | :5$$

$$\begin{aligned} -2 &= 1 - b \\ -3 &= -b \end{aligned}$$

$$\boxed{b = -3}$$
$$y = x + 3$$

$$A(-3, 2) \quad B(1, 6)$$

$$y = ax + b$$

$$\begin{cases} 2 = -3a + b & | \cdot (-1) \\ 6 = a + b \\ -2 = 3a - b \\ + \quad 6 = a + b \end{cases}$$

$$4 = 4a \Rightarrow a = 1$$

$$6 = 1 + b \Rightarrow b = 5$$

$$y = x + 5$$

$A(2, -4)$ $B(4, -2)$
 $y = ax + b$

$$\begin{cases}
 -4 = 2a + b & | \cdot (-1) \\
 -2 = 4a + b \\
 4 = -2a - b \\
 -2 = 4a + b
 \end{cases}$$

$2 = 2a \Rightarrow a = 1$

$$\begin{aligned}
 -4 &= 2 + b \\
 b &= -6
 \end{aligned}$$

$$\boxed{y = x - 6}$$

$$A(-3, -2) \quad B(1, 5)$$

$$y = \frac{7}{4}x - \frac{13}{4}$$

$$\hookrightarrow \frac{1}{2} = \frac{1}{2} = 2 \quad a = \frac{7}{4}$$

$$2 = 3a + b$$

$$b = 2 - \frac{21}{4} = \frac{8}{4} - \frac{21}{4} = -\frac{13}{4} \quad 2 = 3 \cdot \frac{7}{4} + b$$

$$2 = \frac{21}{4} + b$$

A (-5, 3) B (3, -1)