

$$f(x) = 8x - 7 \quad f(x) = 17$$

$$17 = 8x - 7$$

$$24 = 8x$$

$$3 = x$$

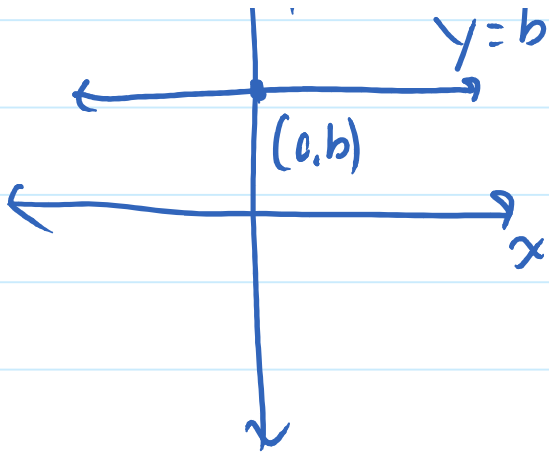
STANDARD FORM OF LINEAR EQUATION

Form $Ax + By = C$, $A, B, \text{ and } C$ are \mathbb{R}
 A and B NOT BOTH 0

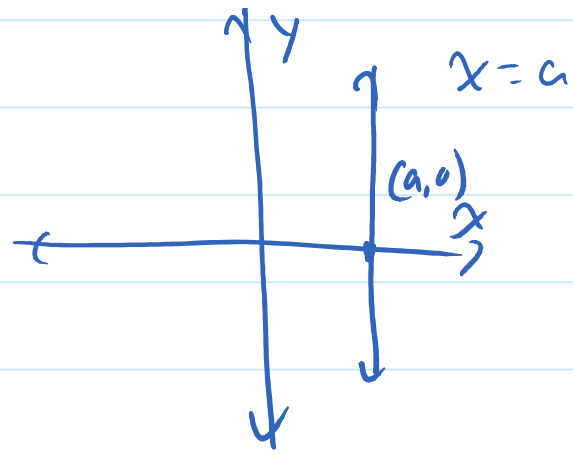
X-INTERCEPT - x coordinate where the graph crosses the x -axis. ($y=0$)

Y-INTERCEPT - y coordinate where the graph crosses the y -axis. ($x=0$)





~~The~~ $y=b$ is horizontal line that passes through $(0, b)$



$x=a$ vertical line that passes through $(a, 0)$

To use intercepts for $Ax + By = C$
 C is divisible by A and B

$$3x + 4y = 12$$

$$(4, 0) \quad (0, 3)$$

