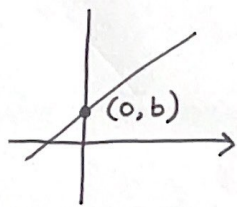B) <u>Y-intercept</u> (b)

point where the line crosses the y-axis (x=0)

→ also called <u>zero term</u>, start point or initial point
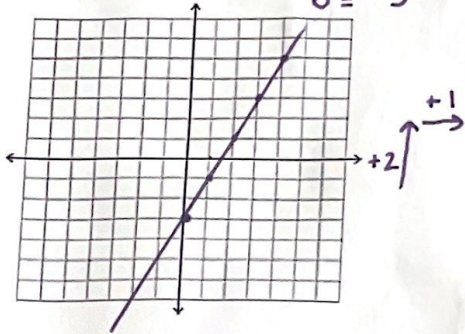
→ It's a <u>constant</u>.

Q: Can you find a shortcut to graphing a line?
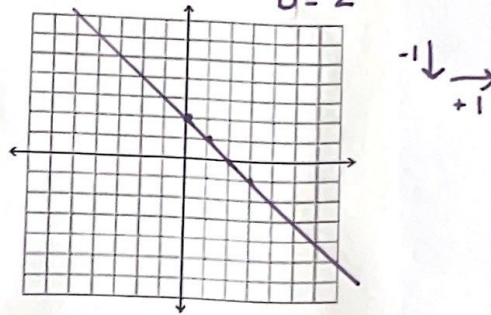
Examples

a) $y = 2x - 3$ $\quad m = 2x$
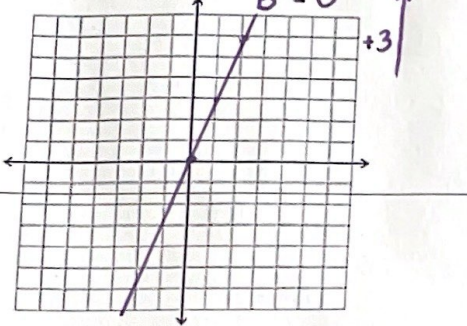$\quad b = -3$

$+2 \Big\uparrow \overset{+1}{\longrightarrow}$

b) $y = -x + 2$ $\quad m = -1$
$\quad b = 2$

$\overset{-1\downarrow}{\underset{+1}{\longrightarrow}}$

c) $y = 3x$ $\quad m = 3$
$\quad b = 0$

$+3 \Big\uparrow \overset{+1}{\longrightarrow}$

d) $y = \frac{3}{2}x + 1$ $\quad m = \frac{3}{2}$
$\quad b = 1$

$+3 \Big\uparrow \overset{+2}{\longrightarrow}$