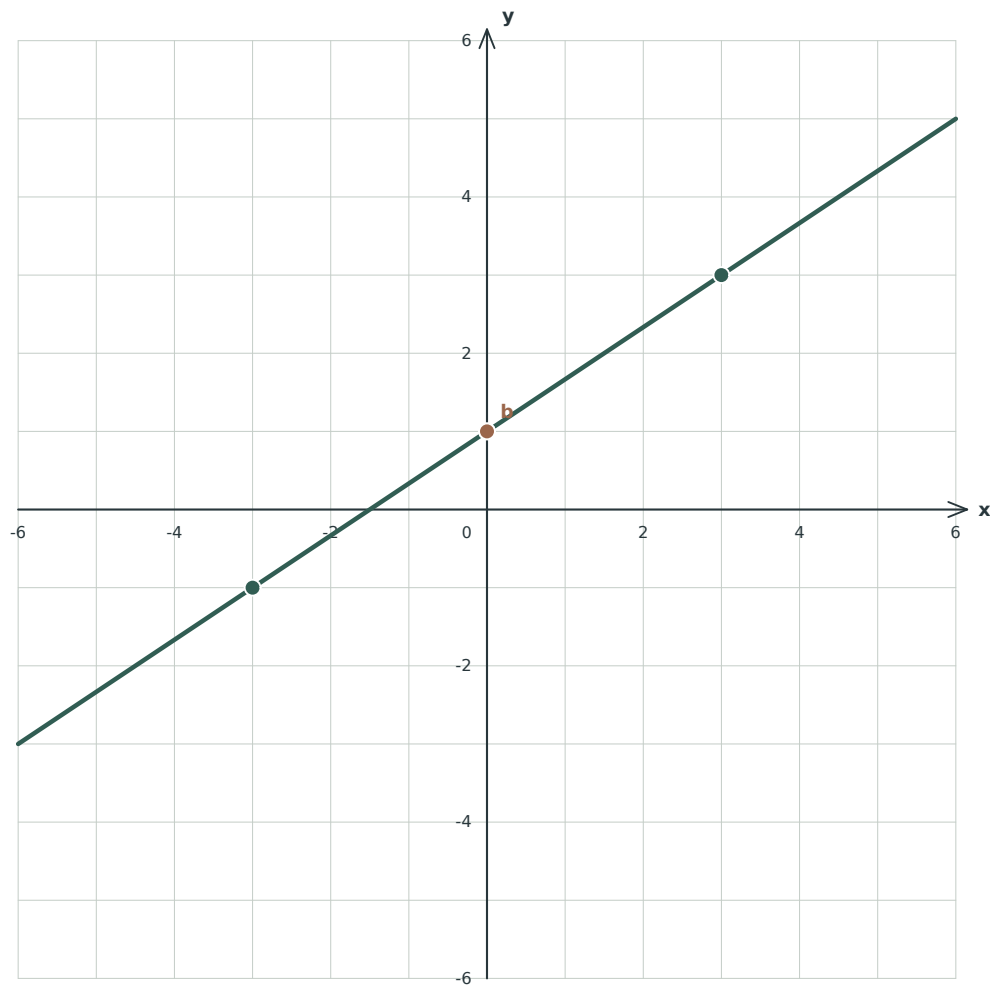


A fractional rise

Construct the line from its equation. In $y=mx+b$, m is the signed slope and $(0,b)$ is the y -intercept.

$y = \frac{2}{3}x + 1$. Table x values: -3, 0, 3. Every grid interval is 1 unit.

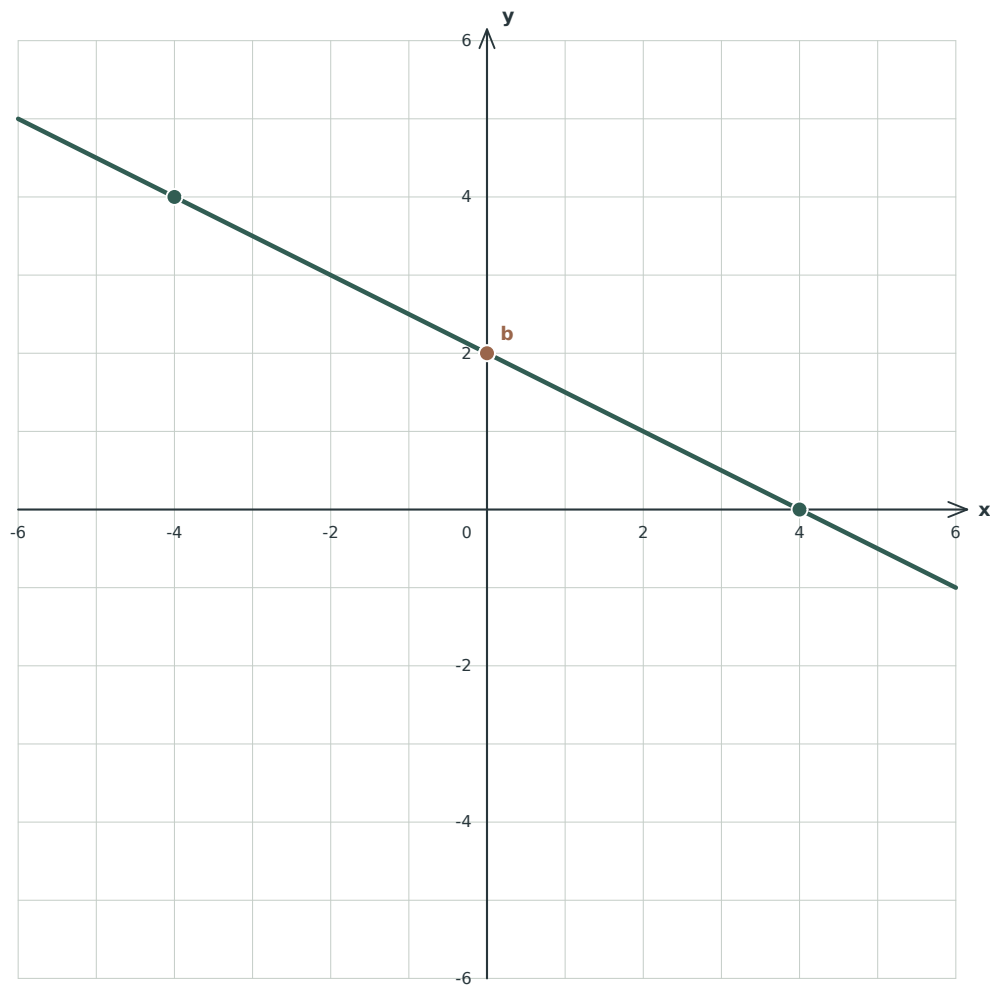


1. Identify m , b and the y -intercept. $m = \frac{2}{3}$; $b = 1$. Intercept: $(0,1)$.
2. Calculate the three table y values. $x=-3$: $y=-1$; $x=0$: $y=1$; $x=3$: $y=3$
3. Draw the line through the correct points. Plot the intercept and table points, then draw the straight line.

A negative slope

Construct the line from its equation. In $y=mx+b$, m is the signed slope and $(0,b)$ is the y-intercept.

$y = -1/2x + 2$. Table x values: -4, 0, 4. Every grid interval is 1 unit.

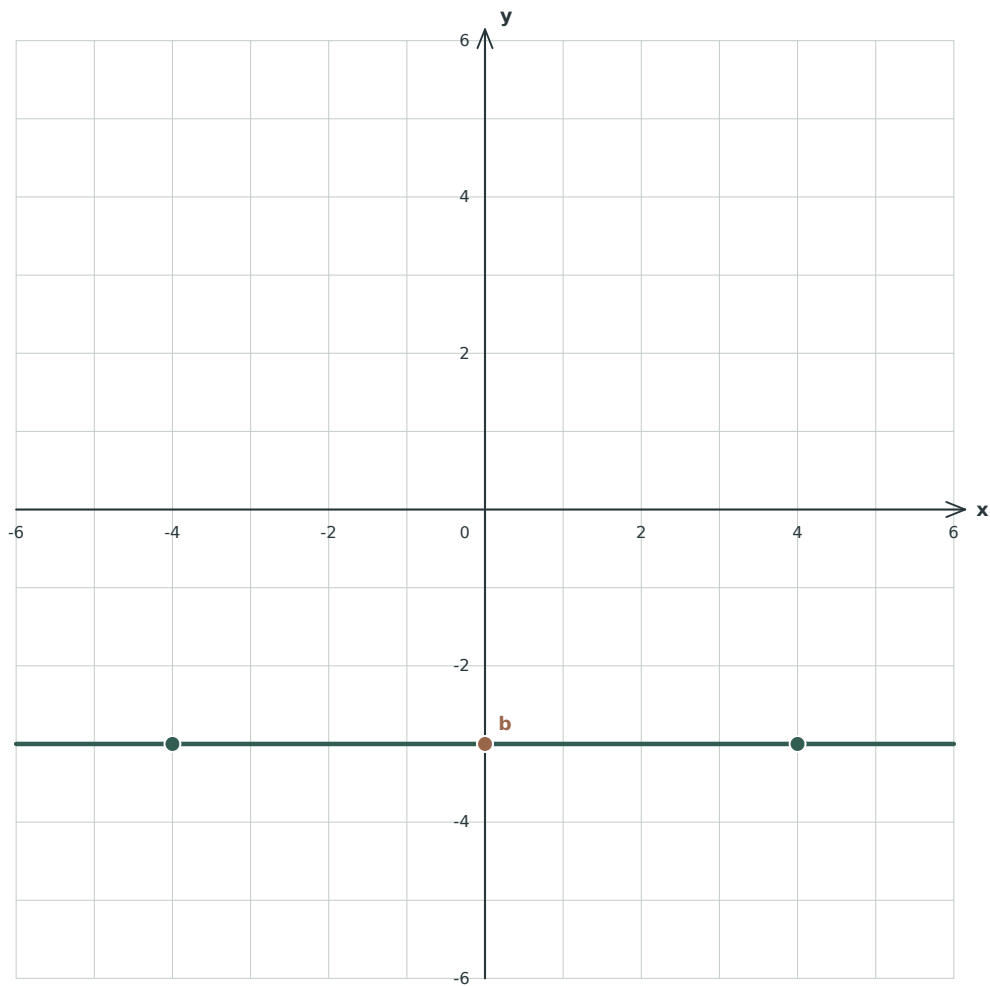


1. Identify m , b and the y-intercept. $m = -1/2$; $b = 2$. Intercept: $(0,2)$.
2. Calculate the three table y values. $x=-4$: $y=4$; $x=0$: $y=2$; $x=4$: $y=0$
3. Draw the line through the correct points. Plot the intercept and table points, then draw the straight line.

A horizontal line

Construct the line from its equation. In $y=mx+b$, m is the signed slope and $(0,b)$ is the y-intercept.

$y = 0x - 3$. Table x values: -4, 0, 4. Every grid interval is 1 unit.

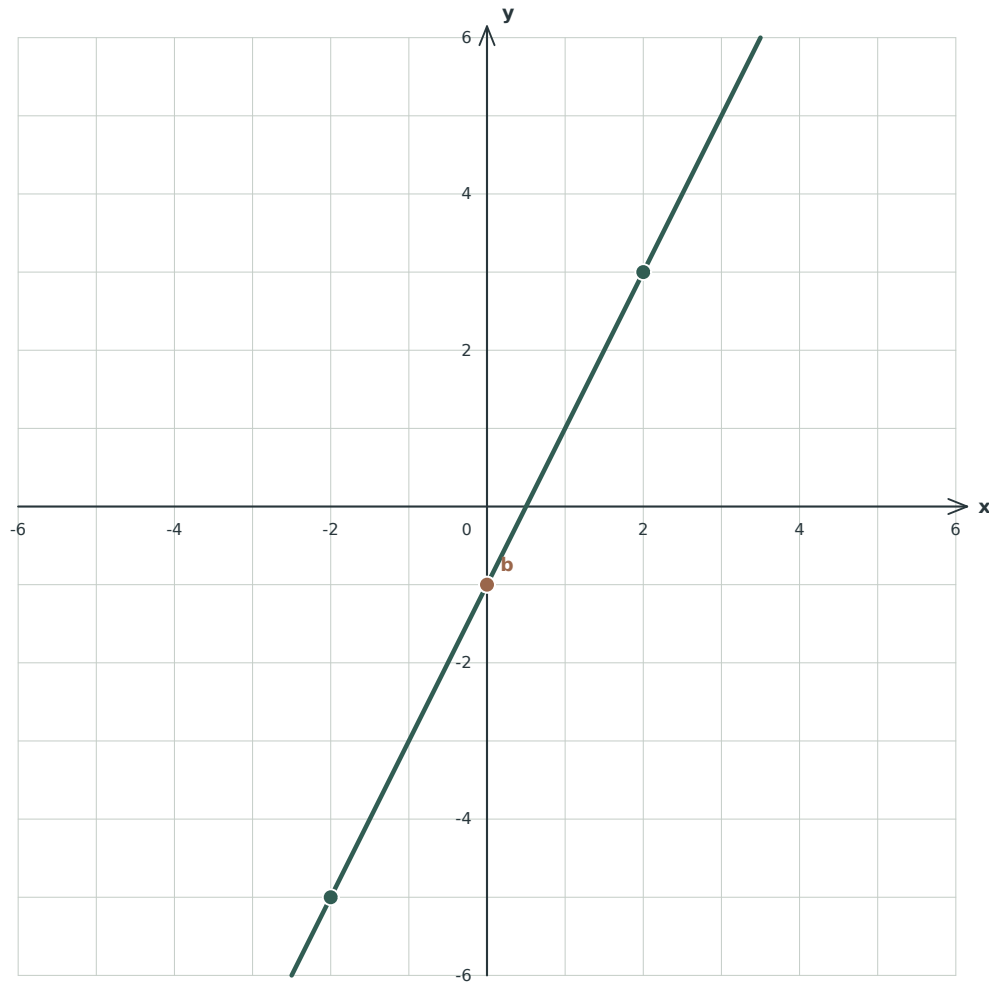


1. Identify m , b and the y-intercept. $m = 0$; $b = -3$. Intercept: $(0, -3)$.
2. Calculate the three table y values. $x=-4$: $y=-3$; $x=0$: $y=-3$; $x=4$: $y=-3$
3. Draw the line through the correct points. Plot the intercept and table points, then draw the straight line.

A steep rising line

Construct the line from its equation. In $y=mx+b$, m is the signed slope and $(0,b)$ is the y-intercept.

$y = 2x - 1$. Table x values: -2, 0, 2. Every grid interval is 1 unit.

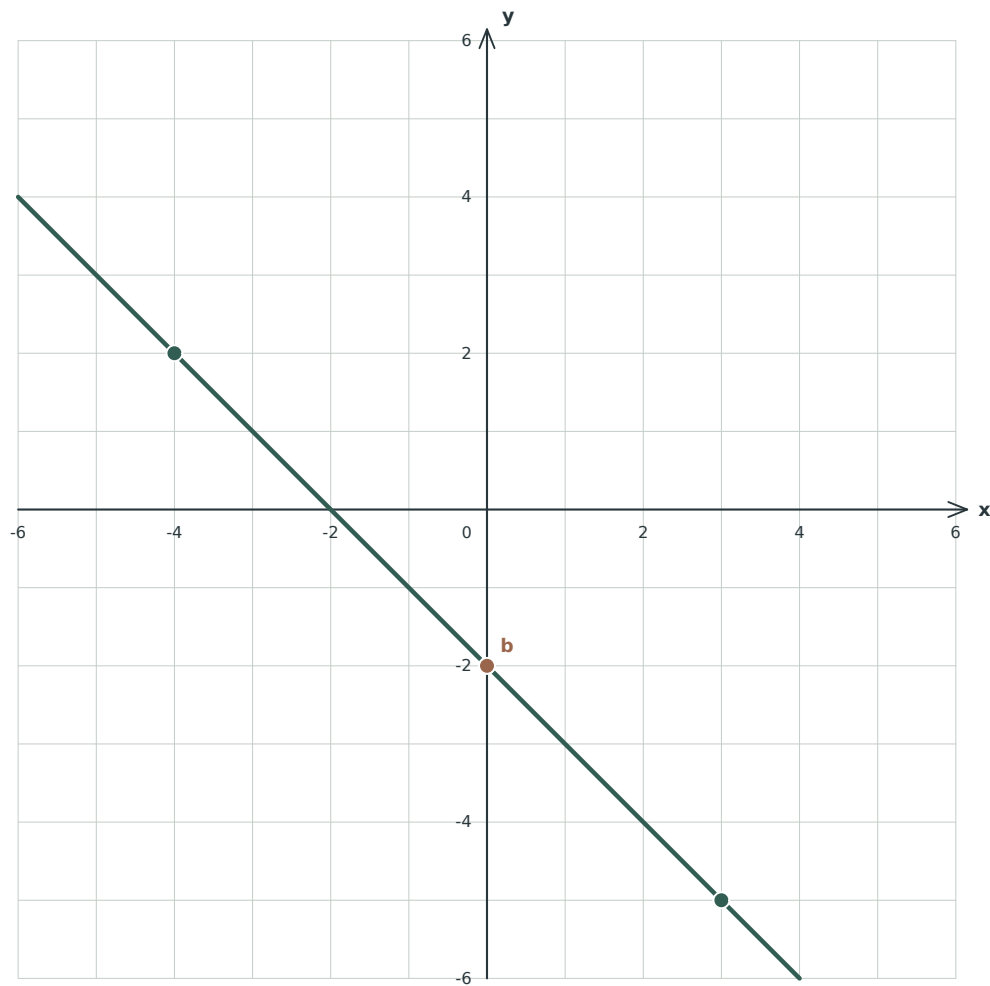


1. Identify m , b and the y-intercept. $m = 2$; $b = -1$. Intercept: $(0,-1)$.
2. Calculate the three table y values. $x=-2$: $y=-5$; $x=0$: $y=-1$; $x=2$: $y=3$
3. Draw the line through the correct points. Plot the intercept and table points, then draw the straight line.

A line falling through a negative intercept

Construct the line from its equation. In $y=mx+b$, m is the signed slope and $(0,b)$ is the y-intercept.

$y = -1x - 2$. Table x values: -4, 0, 3. Every grid interval is 1 unit.

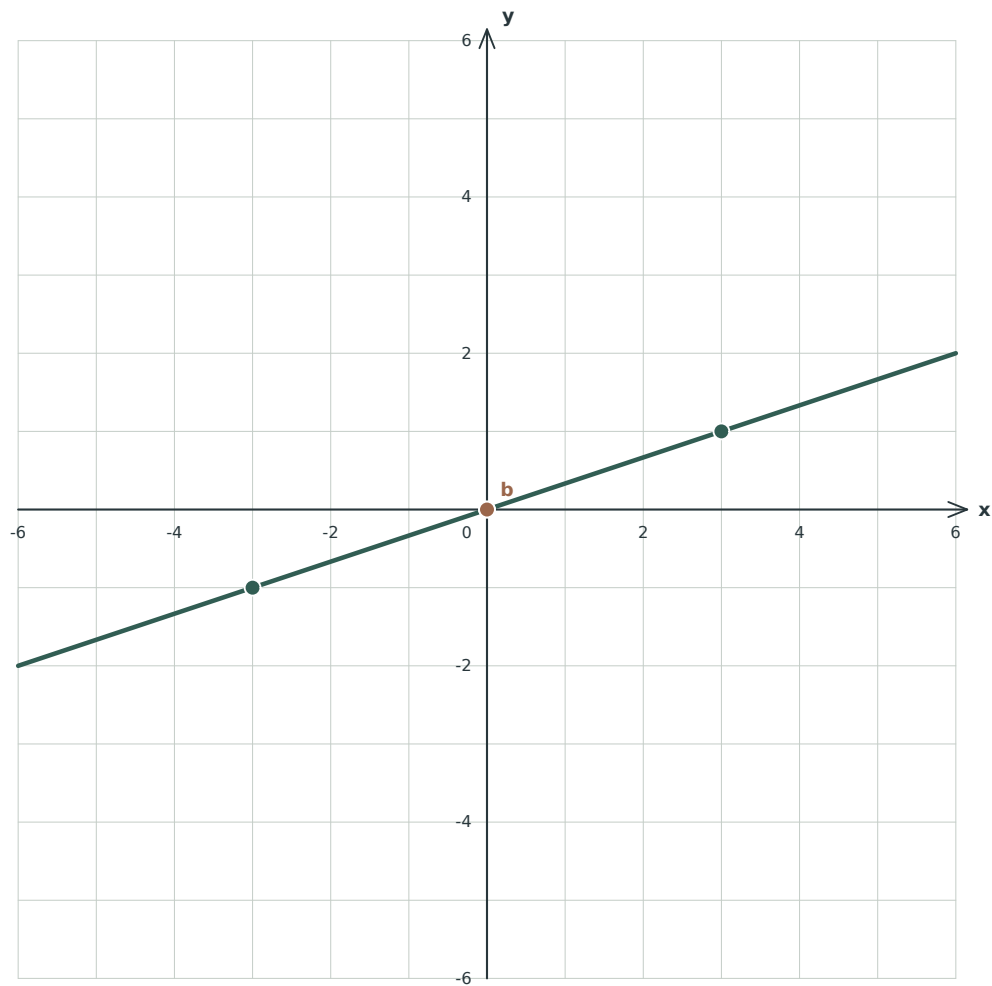


1. Identify m , b and the y-intercept. $m = -1$; $b = -2$. Intercept: $(0,-2)$.
2. Calculate the three table y values. $x=-4$: $y=2$; $x=0$: $y=-2$; $x=3$: $y=-5$
3. Draw the line through the correct points. Plot the intercept and table points, then draw the straight line.

A line through the origin

Construct the line from its equation. In $y=mx+b$, m is the signed slope and $(0,b)$ is the y-intercept.

$y = 1/3x + 0$. Table x values: -3, 0, 3. Every grid interval is 1 unit.



1. Identify m , b and the y-intercept. $m = 1/3$; $b = 0$. Intercept: $(0,0)$.
2. Calculate the three table y values. $x=-3$: $y=-1$; $x=0$: $y=0$; $x=3$: $y=1$
3. Draw the line through the correct points. Plot the intercept and table points, then draw the straight line.