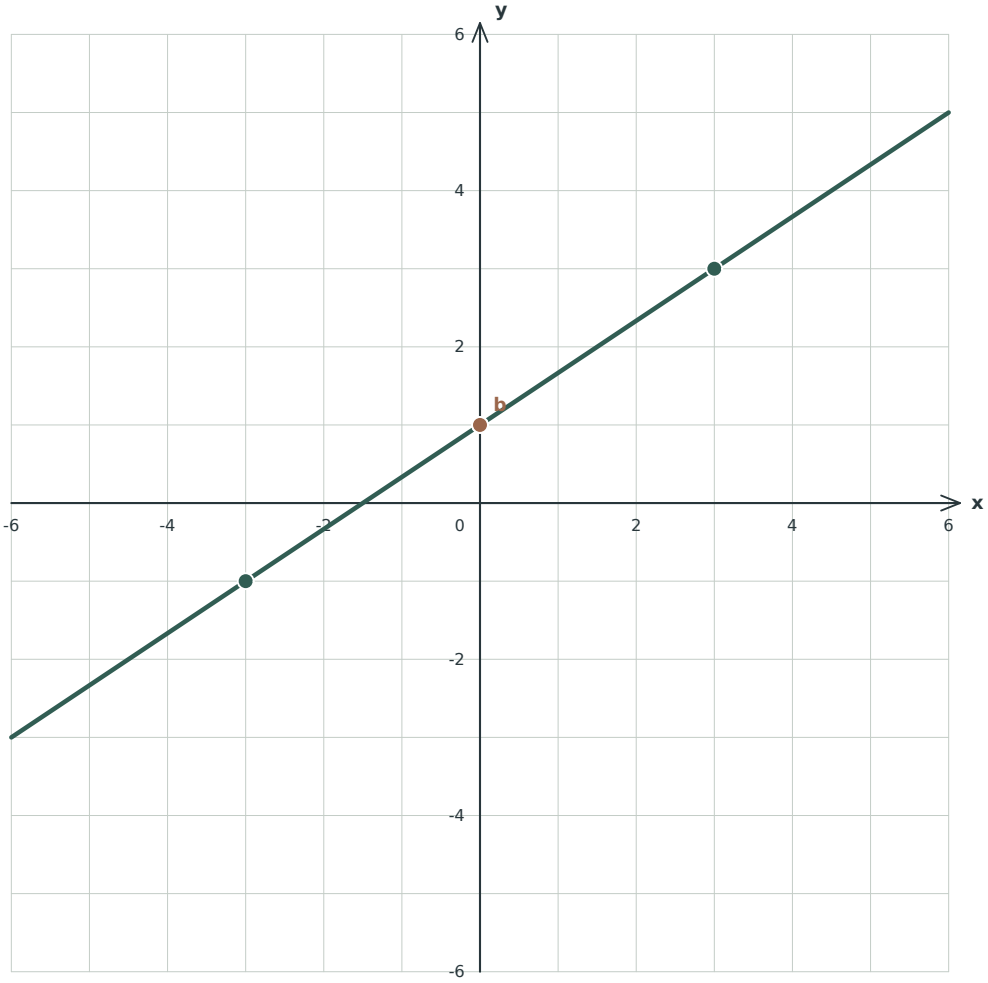
A fractional rise

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

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



1. Identify m, b and the y-intercept. m = 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.

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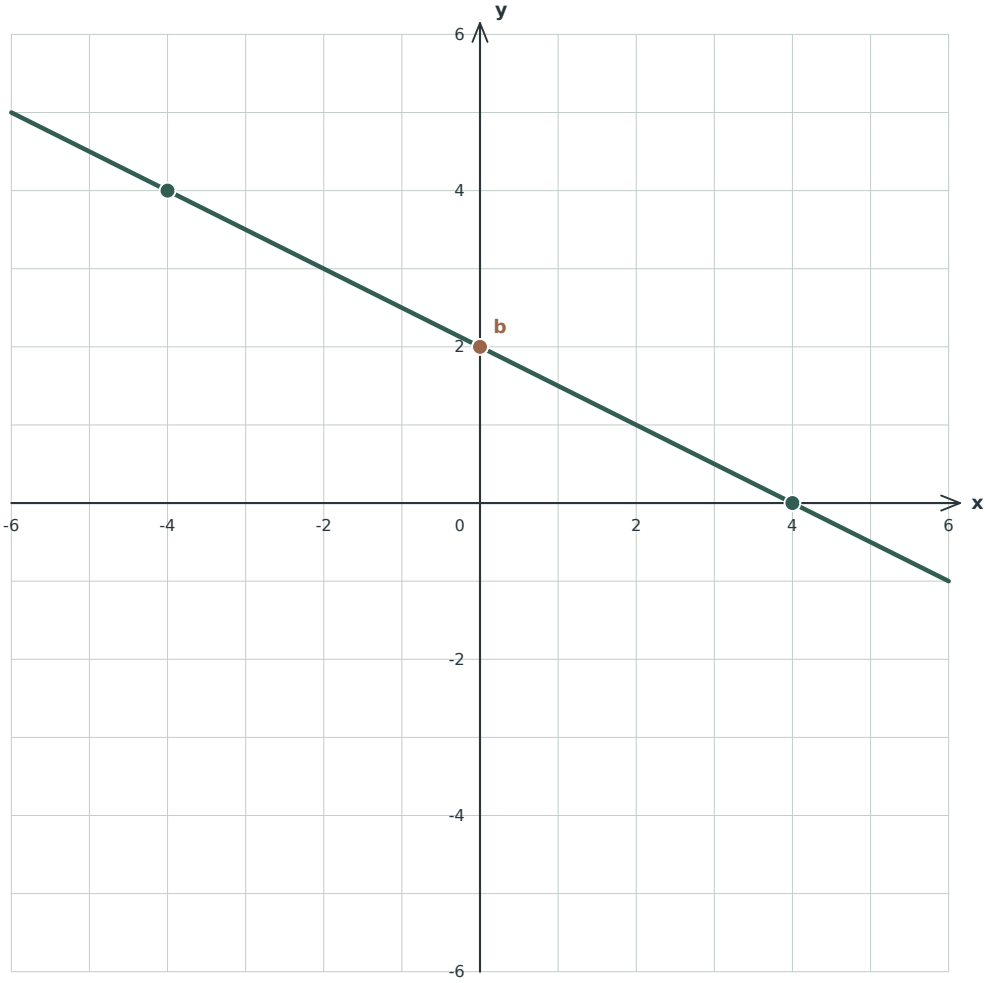
A negative slope

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.

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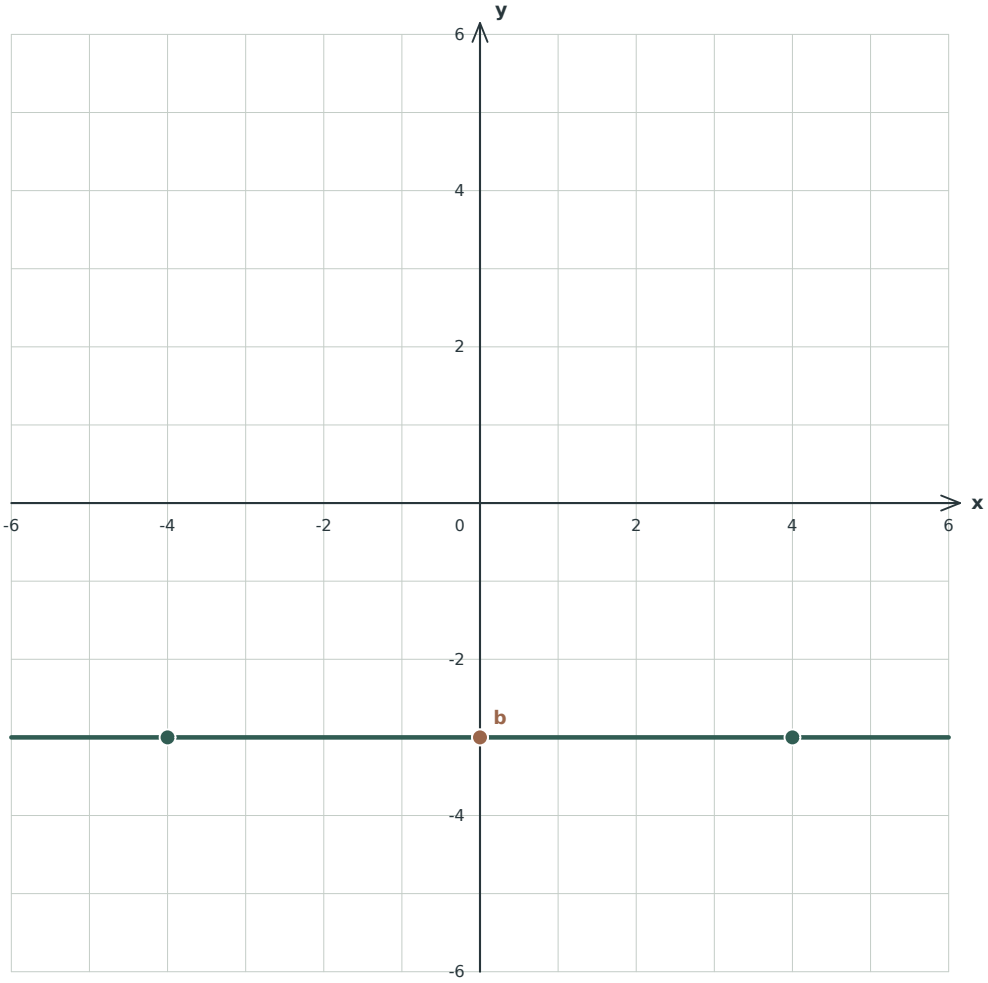
A horizontal line

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.

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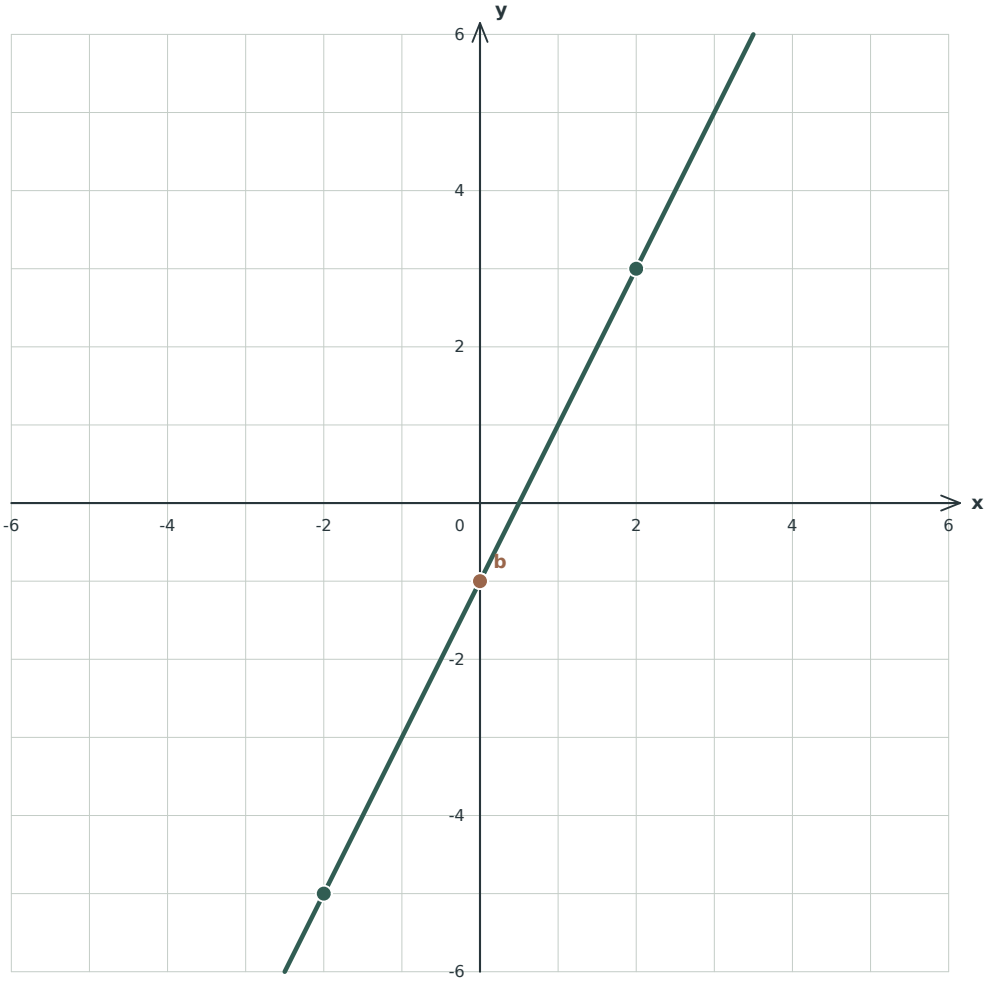
A steep rising line

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.

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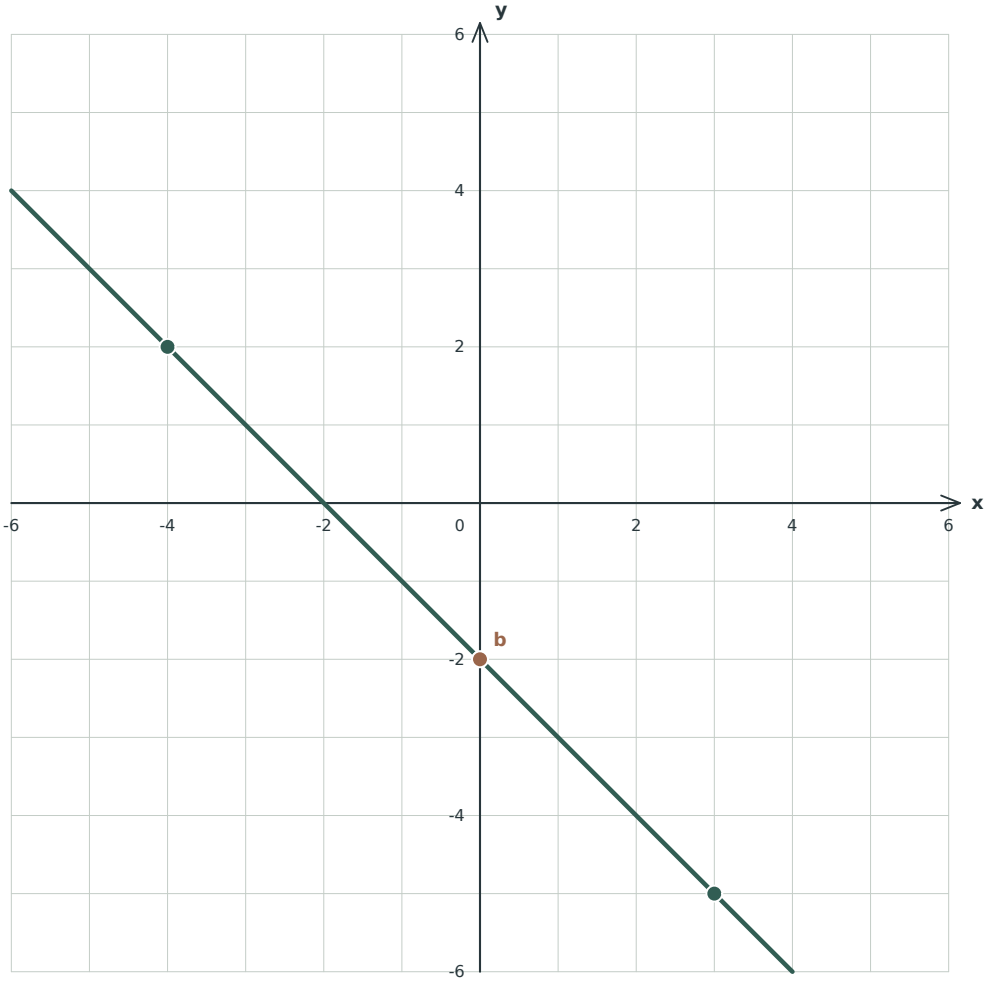
A line falling through a negative intercept

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.

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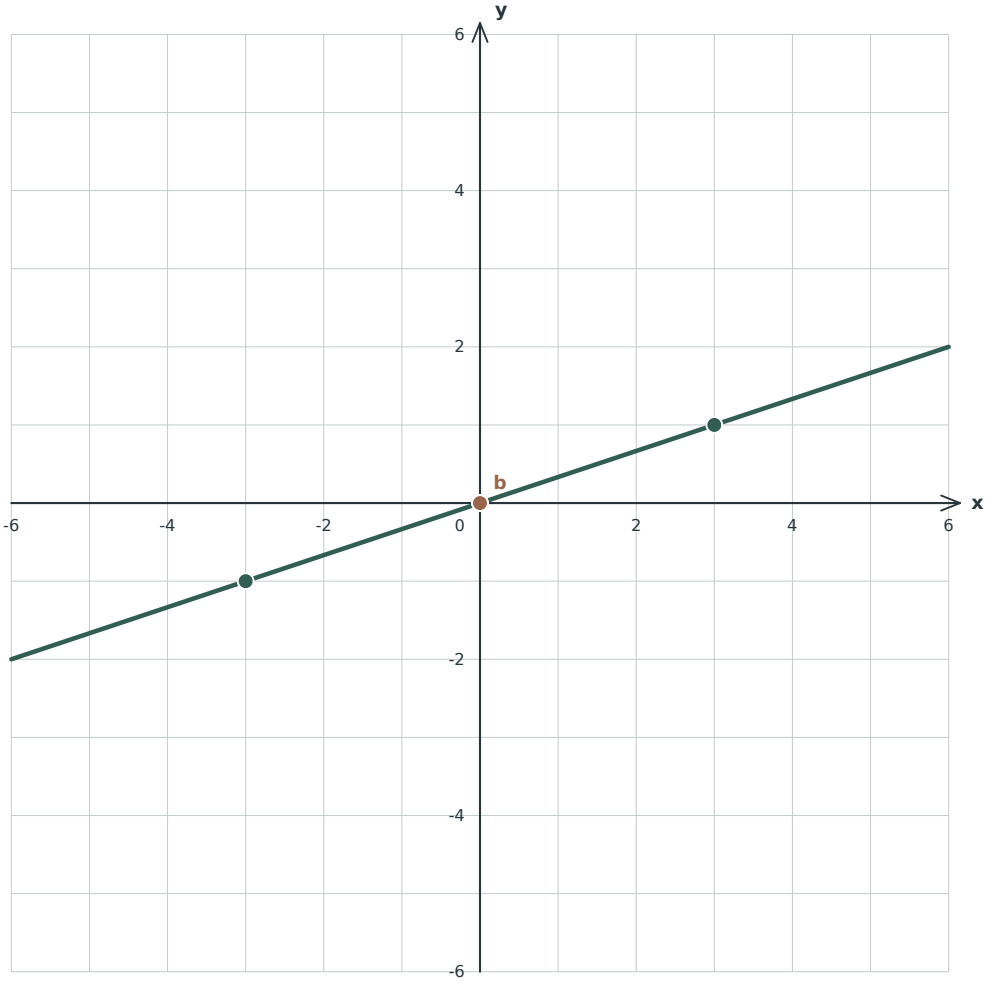
A line through the origin

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.

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