

Parallel lines are at an equal distance from each other and never meet or intersect.

They also have the same gradient.

To find the gradient of a line, the equation should be written in the form y equals m x plus c , where m is the gradient.

For the equation $2y + 6x = 12$, find the gradient of any line parallel to it.

Change the subject of the equation to y .

Subtract $6x$ from each side. and divide each side by two to get y equals negative three x plus six.

The gradient is the coefficient of x , which is negative three, so the gradient of any line parallel to $2y + 6x = 12$ will also be negative three.

Remember that horizontal lines have a gradient of zero where y has constant value and vertical lines gradients are undefined where x has a constant value.