

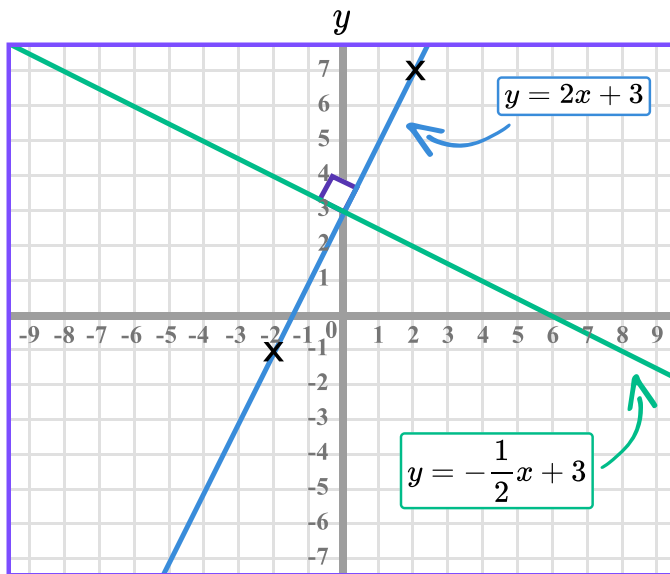
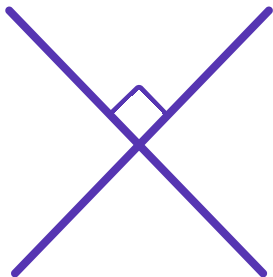
Perpendicular Lines

Perpendicular lines intersect (cross) one another at 90° (a right angle).

They have **gradients that multiply to give -1**

Negative reciprocal

Example



The line $y = 2x + 3$ has a gradient of 2

The line $y = -\frac{1}{2}x + 3$ has a gradient of $-\frac{1}{2}$

$$2 \times -\frac{1}{2} = \frac{-2}{2} = -1$$

The gradients multiply to give -1