

What careers would use these skills?

Financial analyst, engineer, architect, resource manager



Year 11 foundation topic 20

More Algebra

Plotting graphs

You can plot any graph by filling in a table of values.

Eg.

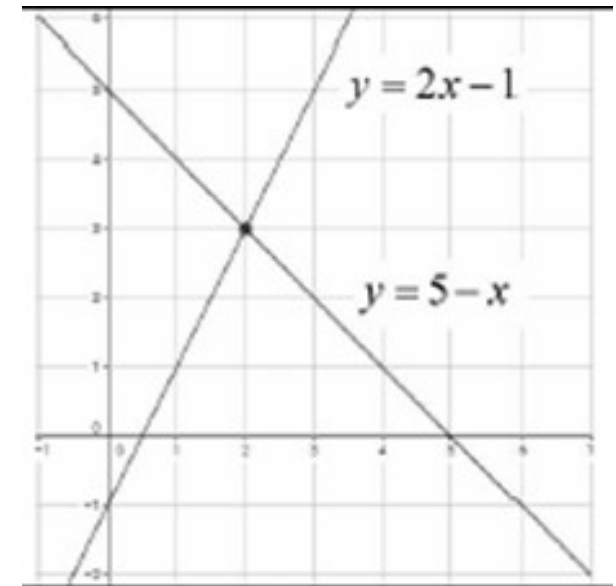
X	-3	-2	-1	0	1	2	3
Y							

Graphical simultaneous equations

Draw the graphs of the two equations.

The solutions will be where the lines meet.

Solution (2,3)

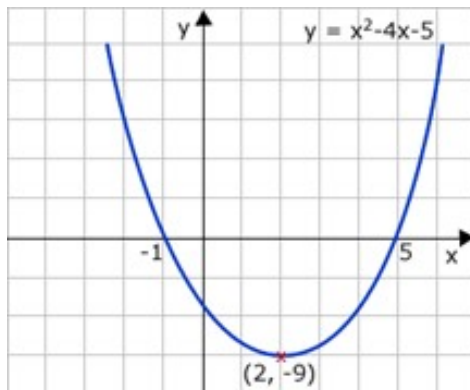


Sketch quadratic graphs

A U-shaped curve called a parabola. The equation is in the form

$y = ax^2 + bx + c$ where a , b and c are numbers and $a \neq 0$.

Eg.

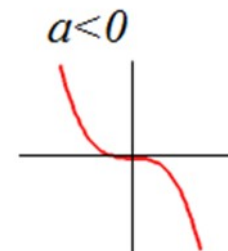
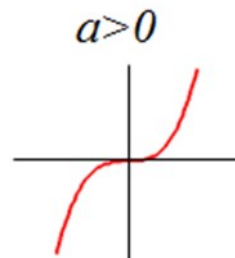


Sketch cubic graphs

The equation is in the form $y = ax^3 + k$, where k is a number.

If $a > 0$, the curve is increasing.

If $a < 0$, the curve is decreasing.



Reciprocal graphs

