## Quadratic



If something is *quadratic*, it contains a variable squared, but not raised to any higher power.

For instance:

- a quadratic equation or expression in x contains an  $x^2$  term but not  $x^3$
- if there is more than one variable, quadratic includes the possibility that they are multiplied together in pairs but not in threes, for example  $x^2 + 2y$ , xy 3 and  $x^2 + y^2 + 3xy y + 1$  are all quadratic, but x + y,  $x^2y$  and  $x^3 y^2$  are not (the first is linear, the other two are cubic).