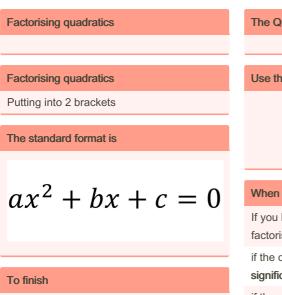
# Cheatography

## Quadratics gcse maths Cheat Sheet by RobynAcademicWeapon via cheatography.com/209581/cs/45972/



As well ask factorising you may be asked to solve the equation.

This just means **finding the value of X** when each bracket is 0.

(X+3)=0 ---> X=-3

#### The Quadratic Formula

$$ax^{*}+bx+c=0$$
$$x = \frac{-b \pm \sqrt{b^{*}-4ac}}{2a}$$

## When to use the formula

If you have a quadratic that wont easily factorise

if the question mentions **decimal places** or **significant figures** 

if the question asks for an **exact answers** or **surds**(this could be completing the squares)

Completing the square

Summery

$$x^{2} + 12x - 5 = (x + 6)^{2} - 41$$
  
The SQUARE...

Write down a SQUARED bracket And then stick a number on the end to COMPLETE it

C

By RobynAcademicWeapon

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Not published yet. Last updated 24th March, 2025. Page 1 of 1.

### Steps

First take out the number in front of the  $X^2$ eg:  $2x^2+8x+5=0 \longrightarrow 2(x^2+4x)=0$ then halve the b term and put into a squared bracket eg:  $2((x+2)^2-4))$ then times everything

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