

Divide one of the brackets by the coefficient.

The coefficient is 2. Pick whichever bracket divides easiest by 2, and we're away!

$$(x + 3)(2x + 1)$$

That's it. That's your answer. This process may seem a little confusing - but the more you practice, the more it will become second nature.

And remember, if you are ever unsure about your answer, you can expand it to see if you still get your original equation! If you don't - you know you've made a mistake somewhere.

STOP AND CHECK:

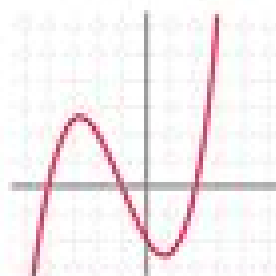
Factorise these brackets:

$$\textcircled{1} 3x^2 + 3x + 1$$

$$\textcircled{2} 4x^2 - 4x + 40$$

Expanding - but not factorising - cubics (phew!)

Cubics are the next level version of parabolas. You don't just get x^2 , you get x^3 . In fact, they give rise to graphs which look a bit like a parabola that has gone crazy.



A cubic equation is any equation with at least one cubed value.

Let's have a look at an example of a cubic equation:

$$4x^3 + x^2 + 2x + 1$$

They look like quadratic equations - except with one more term at the start! The good news is, you won't have to factorise cubic equations - we just have to learn about expanding!

When cubic graphs are factorised (and need expanding), they have three brackets. They can sometimes be written like this:

$$(x - 2)^3$$

If we want to expand, we'd better write out these brackets in full. It's $(x - 2)$ cubed, so we write it out three times...

$$(x - 2)(x - 2)(x - 2)$$

Now, we can start by completely ignoring one of the brackets, and simply expanding two of the brackets into one. Remember, use FOIL! First, Outer, Inner, Last!

$$(x - 2)(x^2 - 4x + 4)$$

Now, it almost looks like a factorised quadratic - except for the fact that there's three terms in the last bracket. No problem! All we have to do is make sure we multiply every value in the first bracket by every value in the second bracket.

It helps to do this systematically - so you don't accidentally miss anything out:

$$(x - 2)(x^2 - 4x + 4)$$

Sweet. Let's expand out the whole thing.

$$x^3 - 4x^2 + 4x - 2x^2 + 8x - 8$$

Abhhh! So. Many. TERMS. This is where you're likely to trip up by making mistakes, so take it slow, and CHECK YOUR ANSWER!

The last step is to go through and simplify by collecting like terms:

$$x^3 - 6x^2 + 12x - 8$$

Oh. There we go. That's it!

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Marco Cascella



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