

Factoring Check List

1. Factor out a greatest common factor (GCF) if it exists.
2. If the trinomial is a special pattern use the pattern to factor it otherwise use the magic X and factor by rewriting the middle term.

Difference of Perfect Squares:

$$a^2 - b^2 = (a + b)(a - b)$$

Perfect Square Trinomial (plus pattern):

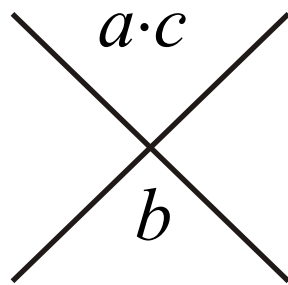
$$a^2 + 2ab + b^2 = (a + b)^2 = (a + b)(a + b)$$

Perfect Square Trinomial (minus pattern):

$$a^2 - 2ab + b^2 = (a - b)^2 = (a - b)(a - b)$$

3. Use the magic X (simple form)

$$ax^2 + bx + c$$



- or use the magic X (full form)

$$ax^2 + bx + c$$

