THE FANTASTIC FACTOR-MATIC

Step 1: Write the original trinomial.

Step 2: Is it in descending order? If it's not, write it in order.

Step 3: Does it have a GCF? If it does, factor out the GCF.

Step 4: Put the trinomial from Part 3 into the Factor-Matic.

Step 5: Fill in the result below. This is your final answer.

If A = 1 you can be done.

AC is a perfect square.

Rewrite the factored form as a pair of binomials.

Now use factoring-by-grouping.

The square root of AC helps you where to start.

If AC is positive, add.

If AC is negative, subtract.

List the factor pairs of AC.

Ar^2

Br

C

Created by David Girms, Hagerstown Community College, 2014
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Step 1: Write the original trinomial:

Step 2: Is it in descending order? If it's not, write it in order:

Step 3: Does it have a GCF? If it does, factor out the GCF:

Step 4: Put the trinomial from Part 3 into the Factor-Matic!

Step 5: Fill in the result below. This is your final answer.

We want the pair of numbers that add or subtract to make +B or −B.

Ax²  Bx  C

If A is 1 you can be done.

Now use factoring-by-grouping:

Rewrite the factored form as a pair of binomials:

The square root of AC tells you where to start.

List the factor pairs of AC.

(If AC is negative, subtract.
If AC is positive, add.)

We want the pair of numbers that add or subtract to make +B or −B.