

Mr. G's Cook Book of Factoring

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What is a Cook Book?

a Collection of cooking directions

Tell you to do Step 1 then
Step 2.

What if you did them out of
order?

|| Blaaaa...

Mr. G's Cook Book of Factoring

Step 1: Find the G.C.F.:
The largest # and/or Letter
that goes into each term.
If there, Do it!, Repeat!
If Not go to Step 2.

Step 2: Binomials:
If Not a Binomial goto Step 3.
If a Binomial ... continue.
Look for $p^s - p^s$
* All three Must Be there
If you do not have All Three
You're Done!
If you do Have All Three ... Then...
 $a^2 - b^2 = (a + b)(a - b)$
Rinse + Repeat : You're Done.

Step 3: Trinomials
If you know Special Products...
Do it! Rinse + Repeat : You're Done
If Not Look for the free
stuff!
* $_ + _ + _ = (+)(+)$
* $_ - _ + _ = (-)(-)$
 $_ + _ - _ = (+)(-)$
 $_ - _ - _ = (-)(-)$
* find the factors of the
a + c values. * Reverse
Guess + Check. F.O.I.L.
Rinse + Repeat : You're Done
If Nothing Works
goto the Last Step! (If you want
only work when $b^2 = 4ac$ or $b^2 < 4ac$ the value
of x)

Step 4: Quadratic Formula
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

You're Done!

O.T.L.

① ~~Ch. 10 Test A wk. st~~
~~18-38~~
Use the Cook Book

~~OPTIONAL~~
Quiz

$$\textcircled{1} (x+3)(2x-4)=0$$

$$3(x+8)(x-3)=0$$

$$x(x-4)(x+2)=0$$

$$y^2 + 3y - 4$$

✓ ✓