

Factoring Trinomials Using the AC Method

Step 1: Make sure it is in _____ form first.

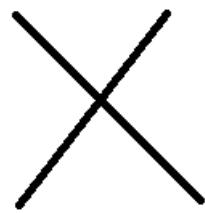
Step 2: Factor out _____ if possible. If not, move on to the next step.

Step 3: Identify a , b , and c

Step 4: Create an X

Step 5: Multiply a and c (ac)

Step 6: Find the factors of ac that _____ to get b



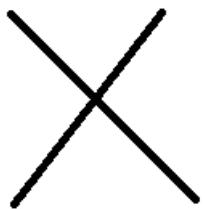
Step 7: Place each factor on the sides of the x (Rewrite the middle term using the factors as coefficients) (bx)

Step 8: Factor by grouping

Example 1: Factor using the AC Method: x^2+5x+6

Standard form? _____ GCF? _____

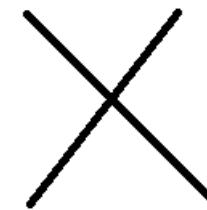
$a=$ _____ $b=$ _____ $c=$ _____



Example 2: $2x^2+22x+60$

Standard form? _____ GCF? _____

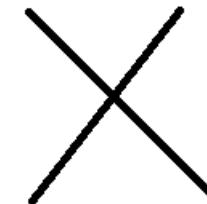
$a=$ _____ $b=$ _____ $c=$ _____



Example 3: x^2-6b+8

Standard form? _____ GCF? _____

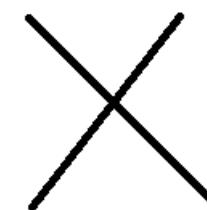
$a=$ _____ $b=$ _____ $c=$ _____



Example 4: x^2-x-90

Standard form? _____ GCF? _____

$a=$ _____ $b=$ _____ $c=$ _____



Example 5: $4x^2-4v-8$

Standard form? _____ GCF? _____

$a=$ _____ $b=$ _____ $c=$ _____

