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=_____