|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **What does it mean to "factor?"**  Take an addition or subtraction problem and write it as an **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** multiplication problem.  Where do I start?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Factoring using GCF:**  1. Find the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** that goes into **\_\_\_\_\_\_\_\_\_\_\_\_\_** of the numbers.  2. Find the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** of  the common variables (the variable must occur in every term).  3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** all of the original terms by the GCF to determine your (leftovers).  4. Always check to see if you can factor any further!  **GCF(leftovers)**  **Example: Factor using GCF.**   |  |  |  | | --- | --- | --- | |  |  |  |   **Factoring Quadratic Trinomials where A = 1**  In order to factor, ask yourself...  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
|  |  |  |  |
| Multiply to a (\_) and Add to a (\_) | Multiply to a (\_) and Add to a (\_) | Multiply to a (\_) and Add to a (\_) | Multiply to a (\_) and Add to a (\_) |
| Signs? | Signs? | Signs? | Signs? |
| **Examples: Factor** | | | |

|  |  |
| --- | --- |
|  |  |
|  |  |

Putting it all together!

**Example: Factor**



**Step # 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Step # 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**