	Number	Of	Terms
CHECK FOR	Two	Three	Four or More
Greatest Common Factor			
Grouping by Pairs			
<b>Difference of Squares</b> $a^2 - b^2 = (a+b)(a-b)$			
Perfect Square Trinomial			
$a^{2} + 2ab + b^{2} = (a + b)^{2}$ $a^{2} - 2ab + b^{2} = (a - b)^{2}$			
Grouping method (Product/Sum method) or Reverse FOIL			

## **Quick Check for Factoring Polynomials**

## **Points to Remember:**

- 1. <u>Always</u> look for a GCF first, no matter how many terms are in the polynomial.
- 2. A sum of squares is prime (unless there is a GCF).
- **3.** You can only 'insert' the pair of numbers (found when using grouping to factor a trinomial), if the leading coefficient is a 1.
- **4.** Always write a trinomial in descending order (if there is one variable) before trying to factor using grouping or reversing FOIL.