








## Quick Check for Factoring Polynomials

CHECK FOR	TWO TERMS	THREE TERMS	FOUR TERMS
<b>Greatest Common Factor</b>			
<b>Grouping by Pairs</b>			
<b>Difference of Squares</b> $a^2 - b^2 = (a+b)(a-b)$			
<b>Sum or Difference of Cubes</b> $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$ $a^3 - b^3 = (a-b)(a^2 + ab + b^2)$			
<b>Perfect Square Trinomial</b> $a^2 + 2ab + b^2 = (a+b)^2$ $a^2 - 2ab + b^2 = (a-b)^2$			
<b>Trial-&amp;-Error or <i>ac</i> method (Product/Sum method)</b>		