**Math Reviewer**

**Common Monomial Factor**

**Factoring Greatest Common Monomial Factor:**

* Factoring polynomials is the reverse process of finding the product of two or more polynomials of smaller degrees.

**Factoring and GCf:**

* The Greatest Common Factor (GCF) of two or more monomials is the **Common Factor** having the greatest numerical factor and with variables having the least degree. Thus, the term is the GCF of a polynomial if:

1. is the Greatest Integer that divides each of the coefficients of the polynomials.
2. is the Smallest Exponent of in all the terms of the polynomial.

* PS: The exponent is separate and functions independently from the literal coefficient.

**Example of Equation:**

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| **Expressions:** | **CMF:** | **FF:** |
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**Explanation of Equations Above:**

* **Common Monomial Factor:**

1. Find the Greatest Common Factor of the numerical coefficients; if there are none, then it is 0.
2. Find the common literal coefficients of the polynomials; if there are none, then there are no literal coefficients.
3. Find the lowest exponent; if there are none, then the exponent is 0.

* **Friends Forever:**

1. Divide each polynomial to the Common Monomial Factor.
2. Subtract the exponents (if there are any) to the CMF.
3. Copy the same sign.