## Factoring a Monomial from a Polynomial

To factor an expression means to write the expression as a product of its factors.

To factor a monomial from a polynomial, we use the following steps:

- Write each term as a product of its prime factors.
- Determine the greatest common factor (GCF) by underlining the common factors of each term in the polynomial.
- Then use the distributive property to factor out the GCF.

**Example:** Factor  $6y^2 + 9y^5$ 

 $-2*3*y*y + 3*3*y*y*y*y*y, GCF is 3y^{2}$  $= 3y^{2}(2 + 3y^{3})$