Activity 4 (Make Me Many!)

Instructions: Using what you have learned in factoring polynomials, find the factors of the following polynomials using the common factor of highest degree.

1. $3x+6$

2. $6x^2+12x$

3. $20x^3+4x^2$

Instructions: Using what you have learned in factoring polynomials, find the factors of the following polynomials using the difference of squares.

1. $2x^2-100$

2. x^2-144

3. $2x^2-32$

4. $5x^2-5$

Instructions: Using what you have learned in factoring polynomials, find the factors of the following polynomials using the quadratic trinomial.

1. $x^2-8x+16$

2. x^2+x-42

Instructions: Using what you have learned in factoring polynomials, find the factors of the following polynomials using Difference and Sums of Cubes.

1. y^3-216

2. $64x^3+27$

Instructions: Using what you have learned in factoring polynomials, find the factors of the following polynomials using grouping.

1. x^4-2x^3+3x-6

2. $y^3+3y^2+4y+12$

3. $x^3+2x^2-9x-18$