Algebra II Notes 9/12/18

Factoring

**Factors** are numbers that multiply to a given number.

The number 6 factors to 1 and 6, and to 2 and 3.

1. What are factors of 12?
2. What is the greatest factor that 6 and 12 share?
3. A tougher question: what are factors of x2?

Sometimes you are asked to factor expressions with multiple terms. You should start by finding a **greatest common factor.** Simplify the following problem:

1. 6x(2x + 1)

What is the **greatest common factor** of the terms you just found?

Going backwards – factor the following two polynomials:

1. 5b2 + 10b
2. 2w2 + 14

More practice – factor the following polynomials:

1. 5x2 + 10x
2. 2b2 + 14b
3. 2p2 + 16p
4. 5b2 + 5b

Closure: How do you find a GCF?