|  | UNIT 8/CHAPTER 12 changing forms of quadratic functions Cornell Notes/Summary Sheet | Name: $\qquad$ <br> Period: $\qquad$ |
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| Lesson 12.1 - Big Ideas <br> - Polynomial <br> - Term <br> - Coefficient <br> - Monomial <br> - Binomial <br> - Trinomial <br> - Degree of a term <br> - Degree of a polynomial <br> - Adding \& subtracting polynomials | Your Notes |  |
| Lesson 12.2 - Big Ideas <br> - Multiplying polynomials <br> - The table method <br> - FOIL | Your Notes |  |

## Lessons 12.3 \& 12.5 - Big Ideas

- Greatest common factor (GCF)
- Factoring trinomials
- The Box Method
- Difference of Two Squares
- Perfect Square Trinomial

Your Notes
The Box Method
The box method only works if you have factored out any common factors first!
I. Multiply the first and last terms.
2. Find the factors that multiply to be the product (in step I) and that add to be the middlle term (organize this information with an $X$-box)
3. Draw a $2 \times 2$ square
4. Put the first term of the trinomial in the upper-left corner and the constant term in the lower-right corner.
5. Put the factors (from step 2) in the two remaining squares.
6. Find the GCF of each row \& each column
7. Write the result as a product of two binomials.

## Lesson 12.7 - Big Ideas

## Your Notes

- Completing the Square
- Converting standard form to vertex form

