Unit 7 Day 4 Notes on Intro to Factoring GCF
Use the internet/friend/teacher to answer the following:
What is factoring?

"un-multiplying"

EX: $4x + 12 = 4(x + 3)$ OR $x^2 + x = x(x + 1)$

GCF? Greatest Common Factor —

the biggest factor that is in all the terms

Examples: Fill these in based on what you learned from your research.
1) Factor: $x^2 + 3x$

    a. What is the GCF?   b. Factored form:

           X $x^2 + 3x = \boxed{x(x + 3)}$

2) Factor: $8y^2 - 24y$

    a. What is the GCF?   b. Factored form:

           $8y$ $8y^2 - 24y = \boxed{8y(y - 3)}$

3) Factor: $-2x^2y^5 + 12x^3y^3 - 8x^4y^6$

    a. What is the GCF?   b. Factored form:

     $-2x^2y^3$ $-2x^2y^5 + 12x^3y^3 - 8x^4y^6 =$

$$\boxed{-2x^2y^3(y^2 - 6x + 4x^2y^3)}$$