Types of Factoring - Summary

Greatest Common Factor (GCF)  (Always look for the GCF first!)

\[ 24y^3 + 32y \]

Grouping (4 terms)

\[ x^3 + 2x^2 + 5x + 10 \]

Trinomials with a Leading Coefficient of One (the X)

\[ x^2 - 2x - 8 \]
Trinomials with a Leading Coefficient Greater than One
(the X plus grouping or Slip and Divide)

\[ 2x^2 + 7x + 5 \]

\[ 4x^2 - 49 \]

*The sum of two squares is prime unless there is a GCF!

\[ x^2 - 18x + 81 \]

*You will also have problems that involve more than one type of factoring!