Mathematics 10C: Module 3 Factoring Strategies

FACTORING STRATEGIES

In the chart below, record what you have learned about the methods used in this lesson. You should include the following:

- the strategy name
- notes about what type of polynomial this strategy is used to factor
- at least one worked example showing how the strategy is used
- any tips, reminders, or exceptions to the rule that help you to use this strategy properly

The first row of the chart has been done for you to follow as an example.

Strategy Name	When to Use the Strategy	Worked Example Showing How to Factor Using the Strategy	Tips, Hints, or Points to Remember When Using the Strategy
greatest common factor method	This method is used when the terms in a polynomial have common factors other than 1.	$10x^{2}y + 15x^{3}y^{2}$ $10x^{2}y = (2)(5)(x)(x)(y)$ $15x^{3}y^{2} = (3)(5)(x)(x)(x)(y)(y)$ $GCF = (5)(x)(x)(y)$ $= 5x^{2}y$ Therefore, $10x^{2}y + 15x^{3}y^{2} = 5x^{2}y(2 + 3xy)$	Whenever you have to factor, you should first check to see if this method can be used. Remember to check the final expression to see if any of it can be factored further.

Mathematics 10C: Module 3		2	Factoring Strategies	