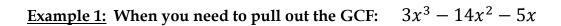
Math 3 Guided Notes Unit 3 Day 2 - Factoring Polynomials with Higher Powers



Example 2: When you need to use the REVERSE BOX METHOD: $x^3 + 2x^2 + 4x + 8$

****This method is used when you have EXACTLY ____ terms.

Example 3: When you need to treat the x^4 like an x^2 : $x^4 - 2x^2 - 8$

Example 4: When factoring equations to the 5th power, you may need to use multiple methods.

a)
$$x^5 - 5x^3 + 6x$$

b)
$$x^5 - 9x^3$$

Now You Try: Decide the best method to use to factor the following.

1)
$$3b^3 - 5b^2 + 2b$$

3)
$$x^4 - 3x^2 - 4$$

2)
$$x^4 - 3x^3 - 2x + 6$$

4)
$$2x^5 - 9x^4 - 5x^3$$