

Name: _____ Period: _____ Date: _____

5.5 Day 2 Notes Factoring Polynomials

Warm-Up: Factor the following

1. $x^3 + 3x^2 - 4x - 12$

2. $6x^4 - 19x^2 + 3$

3. $8t^4 + 1t$

Solving Equations with factoring: Remember to solve a polynomial it must be equal to _____!

Use factoring procedures and the zero product property to solve the higher degree polynomials.

Ex. $x^2 + 6x + 5 = 0$

4. $x^2 - 3x - 10 = 0$

Ex: $x^3 + 2x^2 - 9x = 18$

5. $x^3 + x^2 - 4x - 4 = 0$

Ex. $x^4 + x^2 - 90 = 0$

6. $x^4 - 7x^2 = 44$

Ex. $8x^3 = 1$

7. $x^3 = -27$