Factoring Polynomials Day #1 Notes Date:_____

2 terms (GCF, Difference of 2 Squares, Sum/Difference of 2 Cubes)

GCF

Solve.

$x^3 - 3x^2 = 0$

$7x^2 - 14x = 0$

Difference of 2 Squares

Recall: $x^2 - 36 = 0$

Solve.

$x^4 - 16 = 0$

$x^4 - 81 = 0$

$x^4 - 625 = 0$

$x^4 - 49 = 0$

Sum & Difference of 2 Cubes

Formulas: $a^3 + b^3 =$

$a^3 - b^3 =$

Factor.

$x^3 + 27$

$x^3 - 8$

Solve.

$x^3 + 125 = 0$

$x^3 - 64 = 0$