

Factoring Polynomials

Name: _____

Date: _____

Factoring by Grouping- Factor a _____, then

look for a _____.

Factor the Expression

Steps

Ex1: $5x^2(x - 2) - 3(x - 2)$

Distributive Property

Ex2: $7y(5 - y) + 3(y - 5)$

Factor -1

Distributive Property

Factor the Polynomial

Ex3: $m^3 + 7m^2 - 2m - 14$

Group

Factor

Distributive Property

Ex4: $n^3 + 30 + 6n^2 + 5n$

Rearrange

Group

Factor

Distributive Property

Factor Completely

Ex5: $5x^3 - 55x^2 + 90x$

Factor GCF

factor