

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