

Factoring Grouping Guide Notes

Steps in Factoring by Grouping:

Step 1: rewrite four terms so that the first two terms have a common factor and the last two terms have common factor.

Step 2: Group the first two terms and the last two terms.

Step 3: Both the first two terms and last two terms have a common factor. Use the distributive property to factor each group of two terms.

Step 4: Finally, you can factor the common binomial factor.

Sample problem 1: Factor the following Polynomial by grouping.

1. $3y + 6 + by + 2b$

$2x^2 + 5x + 2x + 10$

$3ax + ay - bx - by$

$4xy + 2x + y + 2$