Algebra I

5-10

Factor by Grouping

Factoring Order

1) Greatest Monomial Factor-
   a) Stuff in common
   b) Backwards distributive property

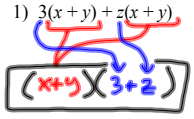
2) Difference of Squares
   a) Must have two groups
   b) Must be a subtraction
   c) Each group must be a perfect square
   d) Answer will always be a conjugate pair.

3) Backwards FOIL
   a) Always starts out as three groups
   b) Answer is two groups

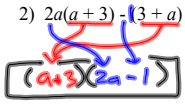
4) Grouping

Factor.

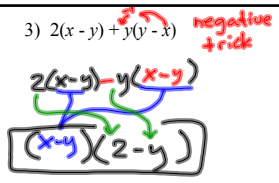
1) $3(x + y) + z(x + y)$



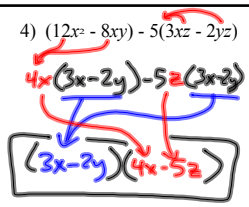
2) $2a(a + 3) - (3 + a)$



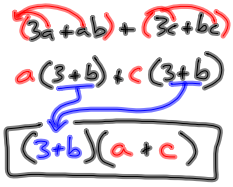
3) $2(x - y) + y(y - x)$



4) $(12x^2 - 8xy) - 5(3xz - 2yz)$



5) $3a + ab + 3c + bc$



6) $3hk - 2k - 12h + 8$