ALGEBRA 1 · CLASSWORK · SPECIAL ED

Understand Factoring by Grouping

SCORE / 25

01 Part A · Practice

Group terms in pairs, factor the GCF from each pair, then factor out the common binomial. For $ax^2 + bx + c$, first split bx using two numbers with product ac and sum b.

EXAMPLE

Factor $2x^2 + 7x + 3$.

1. $ac = 6$; $6 + 1 = 7$: $2x^2 + 6x + x + 3$.
2. $2x(x + 3) + 1(x + 3)$
3. $(2x + 1)(x + 3)$

WORDS TO KNOW

grouping	factoring pairs of terms separately
common binomial	the same binomial in both groups
ac	leading coefficient times constant

1 ●○○

Use grouping to factor $3x^2 + 13x + 4$.

HINT Find two numbers with product $ac = 12$ and sum $b = 13$. Split the middle term, then group.

2 ●○○

Factor by grouping. $x^3 + 4x^2 + 3x + 12$

HINT Group the first two terms and the last two terms. Factor the GCF out of each group.

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Preview - the full worksheet and its answer key are at primeworksheet.com