ALGEBRA 1 · CLASSWORK

Factor ax2 + bx + c with a GCF

SCORE / 25

01 Part A · Practice

Factor out the GCF first (a negative one if $a < 0$), then factor the remaining trinomial; check that nothing else factors.

EXAMPLE

Factor $12x^2 + 2x - 4$.

1. GCF 2: $2(6x^2 + x - 2)$.
2. $6x^2 + x - 2 = (3x + 2)(2x - 1)$.
3. $2(3x + 2)(2x - 1)$

1 ●○○ Factor completely. $-4x^2 + 10x - 4$

2 ●○○ Factor completely. $30x^2 - 52x - 42$

3 ●○○ Factor completely. $16x^3 - 36x^2 - 36x$

4 ●○○ Factor completely. $-45x^2 - 195x - 200$

5 ●○○ Factor completely. $100x^3 + 145x^2 + 25x$

6 ●○○ Factor completely. $60x^2 - 116x + 48$

7 ●○○ Factor completely. $-10x^2 + 74x - 28$

8 ●○○ Factor completely. $9x^3 - 78x^2 + 105x$

9 ●○○ Factor completely. $20x^2 + 85x + 20$

10 ●○○ Factor completely. $10x^2 - 48x + 32$

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