Review Lesson 7
Factoring Completely

NAME:

Start by navigating to the Online Lesson for instructions.

Objectives

⊘ Factor a polynomial expression completely.

Introduced in:

Algebra 1: Principles of Secondary Mathematics

Lessons 23 and 24

🔭 Factoring Completely

▷ *Fill in the notes as you watch the video in the Online Lesson.*

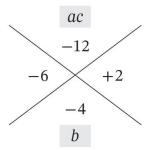■ To factor completely, combine multiple factoring methods until an expression _____

_____ any further.

Example 1

▷ *Complete the example as you watch the video in the Online Lesson.*

Factor completely.

$4x^2 - 4x - 3$

ac

-12

-6 $\quad$ $+2$

-4

b

Example 2

▷ *Complete the example as you watch the video in the Online Lesson.*

Factor completely.

$4x^3 - 6x^2 - 36x + 54$

Example 3

▷ *Complete the example as you watch the video in the Online Lesson.*

Factor completely.

$-8x^2 + 200$

✎ Practice

Factor completely.

1) $\left(-5x+5y\right)\left(3x^2+16x-12\right)$

2) $4x^2-100y^2$

3) $3x^2-18x-48$

4) $3x^3+4x^2-3x-4$

5) $-6x^2y-24xy^2-24y^3$

6) $30x^3-190x^2+60x$

Factor completely.

7) $24x^2 - 54x - 15$

8) $12x^3 + 20x^2 - 3x - 5$

9) $x^3 - 8x^2 + 16x$

10) $4x^3 + 2x^2 - 36x - 18$

11) $28x^2 - 28xy + 21x - 21y$

12) $60x^2 - 80x - 15$

To continue, return to the Online Lesson.