

Review

Common Factor:

1. $15x^2y^3 - 20x^5y^2 + 25x^3y^4$

2. $4x^2 + 12x - 40$

U4P2L2 – 3.8 Factoring Quadratic Expressions

Students will :

- learn to factor quadratic equations of the form $x^2 + bx + c$ and $ax^2 + bx + c$
- learn a quick method to expand a binomial squared and to factor a perfect square trinomial.

Read the top of pg. 302.

Complete pages 302 – 303 #(1 – 4)all

*Change all of the factored forms in the book by replacing the “ – “ with “+” signs

Complete pages 303 – 304 #(1 – 2)all

Examples

1. Factor:

a) $x^2 - 14x + 45$

b) $4x^2 + 12x - 40$

2. Factor:

a) $x^2 - 9$

b) $4x^2 - 12x + 9$

c) $3x^2 + 8x + 4$

3. Find the vertex of the parabola given by $y = -2x^2 + 8x + 42$

Read Key Ideas pg. 304

Ex. Pg. 307 – 309 # (1 – 7) alt, (8 – 13) all