5.3/5.4 Adding Subtracting Radicals

Monday, December 7, 2015 1:44 PM

5.3-5.4 Adding & Subtracting Polynomials
Notes
Name_____ _____

Warmup:
Simplify: $x^2 - 2x + 5x - 3x^2$ $= -2x^2 + 3x$

What are like terms?
like terms are terms with the same variable(s) raised to the same exponents

How do you add/subtract like terms?
we add or subtract the coefficient, leave the variable the same.

ex1 - Add
$(2x^2 + 3x + 2) + (x^2 + 2x + 3)$

$2x^2 + 3x + 2 + x^2 + 2x + 3$

$= 3x^2 + 5x + 5$

What steps are involved in adding polynomials?

1. Identify your like terms
2. add your like terms (or subtract)

ex2 – Simplify

a) $(3y^2 - 8y + 3) + (2y^2 + 8y - 9)$

$= 5y^2 - 6$

b) $(5x^3 + 7x - 9) + (-8x + 11 + 4x^3)$

$= 9x^3 - x + 2$

Subtracting Polynomials

ex3 - Simplify
$(4x^2 - 5x + 7) - (3x^2 + 2x - 5)$

$4x^2 - 5x + 7 - 3x^2 - 2x + 5$

$= x^2 - 7x + 12$

5.3-5.4 Adding & Subtracting Polynomials

Notes

Name_____ _____

What is the extra step needed when subtracting polynomials?

The subtraction sign must be distributed to every term in the second set of brackets.

ex4 - Simplify

a) $(3y^2 - y + 5) - (4y^2 - y + 1)$

$3y^2 - y + 5 - 4y^2 + y - 1$

$= -y^2 + 4$

you try

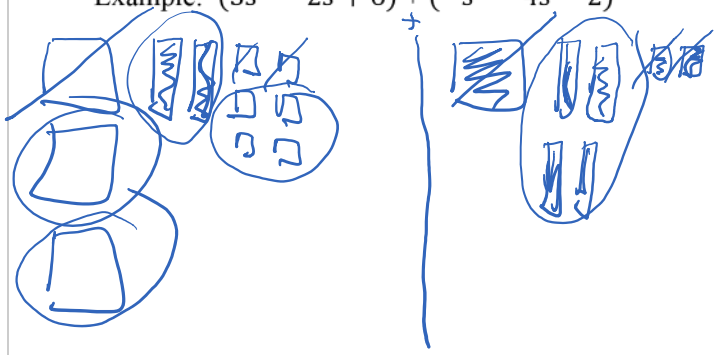
b) $(-x^2y + 3xy) - (4xy^2 + xy - 2x^2y)$

$-x^2y + 3xy - 4xy^2 - xy + 2x^2y$

$= x^2y + 2x - 4xy^2$

Using Algebra tiles

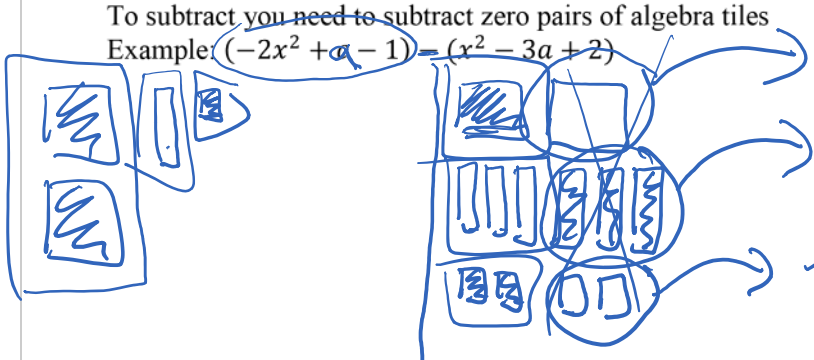
Example: $(3s^2 - 2s + 6) + (-s^2 - 4s - 2)$



$= 2s^2 + 6s + 4$

To subtract you ~~need to~~ subtract zero pairs of algebra tiles

Example: $(-2x^2 + a - 1) - (x^2 - 3a + 2)$



subtracting

$= -3x^2 + 4a - 3$

Assignmnet: pg 229#8 ~~10, 12, 15ace, 17, 18a~~ + pg 234#6-7ac, 8,~~10, 12, 13, 15~~ + worksheet

p.229 #10, 12, 15ace + p.234 # 10, 13, 17 + worksheet.

* Quiz 5.1-5.4 Next Class

5.3-5.4 Adding & Subtracting Polynomials
Notes
Name_____ _____

Reflection: What is different about adding polynomials compared to subtracting them?