

Algebra 1 Regents Study Guide

LIKE TERMS: same variable and same exponent
 if var. diff. $\checkmark$
 if var. & $\times$

ADDITION: $\oplus$ "same"

- Only add **LIKE TERMS**

ex: $(2x^2 + 4x^2 - 3) + (3x^2 + 2x^2 - 5x^2) =$
 $2x^2 + 3x^2 + 4x^2 + 2x^2 - 5x^2 =$
 $2x^2 + 3x^2 + 4x^2 = 9x^2$

SUBTRACTION: $\ominus$ "different"

- Only subtract **LIKE TERMS**

ex: $(4x^2 - 3x - 10) - (2x^2 - 3x - 2) =$ Distribute the -1
 $4x^2 - 3x - 10 - 2x^2 + 3x + 2 =$
 $-2x^2 + 6x - 12$

MULTIPLYING: $\otimes \otimes \otimes$ "same"

Multiply coefficients, add exponents

1. monomial $\cdot$ monomial: $2x^2 \cdot 3x^3 = 6x^{2+3} = 6x^5$

2. monomial $\cdot$ polynomial:
 $3x^2(2x^2 + 4x^2 + 5) =$ Distribute the monomial
 $6x^4 + 12x^4 + 15x^2$

3. binomial $\cdot$ binomial:
 FOIL: $(2x + 3)(x + 2) =$ First, Outer, Inner, Last

$(2x^2 + 4x + 6x + 6) = 2x^2 + 10x + 6$

4. Binomial $\cdot$ Binomial:
 $(x + 2)(x + 3) = x^2 + 3x + 2x + 6 = x^2 + 5x + 6$

5. Binomial $\cdot$ polynomial:
 $(x + 2)(x^2 + 3x + 4) =$
 $x^3 + 3x^2 + 4x + 2x^2 + 6x + 8 = x^3 + 5x^2 + 10x + 8$

INDIVIDUALS: $\otimes$ "different"

Different coefficients, different exponents

ex: $2x^2 + 3x^3 - 4x^2 =$
 $2x^2 - 4x^2 + 3x^3 = 3x^3 - 2x^2$

$\frac{2x^2}{2} = x^2$
 $\frac{3x^3}{3} = x^3$
 $\frac{4x^2}{4} = x^2$

Applications:

Perimeter: Add up all sides

ex: $2x + 3x + 4x + 5x = 14x$

Area: Multiply length and width

ex: $2x \cdot 3x = 6x^2$



Volume: Multiply length, width, and height

ex: $2x \cdot 3x \cdot 4x = 24x^3$

Area: $\otimes$ "same"

$2x^2 \cdot 3x^3 = 6x^5$

Subtraction: $\ominus$ "different"

$2x^2 - 3x^3 = -x^3 - 2x^2$

Multiplication: $\otimes$ "same"

$2x^2 \cdot 3x^3 = 6x^5$

Division: $\div$ "different"

$\frac{2x^2}{2} = x^2$

Equation: $=$ "same"

Algebra 2notetaking Guide

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Rules and examples in algebra. 2 pt. [and] Key Thomas Dalton,1874

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Resources in Education,2001

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Algebra Teams Daniel Allen Cohen,2005

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