

Algebra 1 Regents Study Guide

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

ADDITION: \oplus "sum"

- 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 "difference"

- 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: $\otimes \otimes \otimes$ "product"

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:
 $(x + 2)(x^2 + 3x + 4) =$

$x^3 + 3x^2 + 4x + 2x^2 + 6x + 8 = x^3 + 5x^2 + 10x + 8$

INTERPOLATION: \oplus "average"

Divide coefficients, subtract exponents

ex: $\frac{2x^2 + 4x^2 - 3}{2} = \frac{6x^2 + 4x^2 - 3}{2} = 3x^2 + 2x - \frac{3}{2}$

$\frac{2x^2 + 4x^2 - 3}{2} = \frac{6x^2 + 4x^2 - 3}{2} = 3x^2 + 2x - \frac{3}{2}$

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: $\text{Length} \cdot \text{Width}$

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

Subtraction: $\text{Subtract all sides}$

ex: $2x - 3x = -x$

Multiplication: $\text{Length} \cdot \text{Width}$

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

Division: Divide all sides

ex: $\frac{2x^2 + 4x^2 - 3}{2} = 3x^2 + 2x - \frac{3}{2}$

Equation: $\text{is, are, was, were, goes, going}$

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