

Algebra 1 Regents Study Guide

LIKE TERMS: same variable and same exponent
 if var. is \checkmark
 if var. is \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

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

• FOIL:
 $2x \begin{matrix} 3x & 2 \\ 2x^2 & 4x \\ -3 & -2 \end{matrix} = 2x^3 + 4x^2 + 6x - 6$
 $+ \begin{matrix} 2x^2 & 4x \\ -3 & -2 \end{matrix} = 2x^3 + 4x^2 + 6x - 6$

4. binomial \cdot polynomial:
 $(x + 2)(2x^2 + 4x + 5) =$

$x \begin{matrix} 2x^2 & 4x & 5 \\ 2x^2 & 4x & 5 \\ -3 & -2 & -2 \end{matrix} = 2x^3 + 4x^2 + 5x - 6x^2 - 8x - 10 = 2x^3 - 2x^2 - 3x - 10$

INTERPOLATION: \oplus "same"

Different coefficients, different exponents

ex: $2x^2 + 3x^2 - 4x^2 = 6x^2 - 4x^2 = 2x^2$

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

Applications:

Perimeter: Add up all sides

ex: $\begin{matrix} 2x & 3x \\ 2x & 3x \end{matrix} \Rightarrow 2x + 3x + 2x + 3x = 10x$

Area: Multiply length and width

ex: $\begin{matrix} 2x & 3x \\ 2x & 3x \end{matrix} \Rightarrow 2x \cdot 3x = 6x^2$



Volume: Multiply length, width, and height

ex: $\begin{matrix} 2x & 3x \\ 2x & 3x \\ 2x & 3x \end{matrix} \Rightarrow 2x \cdot 3x \cdot 2x = 12x^3$

• **Area:** $\text{Length} \cdot \text{Width}$

• **Perimeter:** $\text{Length} + \text{Width} + \text{Length} + \text{Width}$

• **Subtraction:** $\text{Length} - \text{Width}$

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

• **Division:** $\text{Length} / \text{Width}$

• **Equation:** $\text{Length} = \text{Width}$

• **Equality:** $\text{Length} = \text{Width}$

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G Psacharopoulos



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