

# 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:  $(2x^2 + 4x^2 - 3) + (3x^2 + 2x^2 - 5x^2) =$   
 $2x^2 + 3x^2 + 4x^2 + 3x^2 - 5x^2 =$   
 $7x^2 + 3x^2 - 2x^2 = 8x^2$

**SUBTRACTION:**  $\ominus$  "different"

- Only subtract **LIKE TERMS**

ex:  $(4x^2 - 3x - 10) - (2x^2 - 3x^2 - 2) =$  Distribute the  $-1$   
 $4x^2 - 3x - 10 - 2x^2 + 3x^2 + 2 =$   
 $-2x^2 + 6x - 8$

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

Multiply coefficients, add exponents

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

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

3. binomial  $\cdot$  binomial:  
 FOIL:  $(2x + 3)(x + 2) =$  FOIL  
 $2x^2 + 4x + 3x + 6 =$   
 $2x^2 + 7x + 6$

$(2x^2 + 3)(x^2 + 2) = 2x^4 + 4x^2 + 3x^2 + 6 =$   
 $2x^4 + 7x^2 + 6$

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

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

**INDIVIDUALS:**  $\otimes$  "different"

Different coefficients, different exponents

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

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

**Applications:**

**Perimeter:** Add up all sides

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

**Area:** Multiply length and width

ex:  $2x \cdot 3x = 6x^2$   
 $4x \cdot 5x = 20x^2$



**Volume:** Multiply length, width, and height

ex:  $2x \cdot 3x \cdot 4x = 24x^3$   
 $4x \cdot 5x \cdot 6x = 120x^3$

**Area:**  $\otimes$  "same"

$2x^2 \cdot 3x^3 = 6x^5$   
 $4x^2 \cdot 5x^3 = 20x^5$

**Subtraction:**  $\ominus$  "different"

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

**Multiplication:**  $\otimes$  "same, multiplied by"

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

**Division:**  $\div$  "ratio of, quotient of"

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

**Equation:**  $=$  "is, are, was, were, goes, goes"

# Math B Regents Study Guide

**Lingsheng Yao**



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