

# 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:  $(2x^2 + 4x^2 - 3) + (3x^2 + 2x^2 - 5x^2) =$   
 $2x^2 + 3x^2 + 4x^2 + 3x^2 - 5x^2 =$   
 $7x^2 + 3x^2 + 3x^2 = 13x^2$

**SUBTRACTION:**  $\ominus$  "difference"

- Only subtract **LIKE TERMS**

ex:  $(4x^2 - 3x - 10) - (2x^2 - 3x - 2) =$  Distribute the  $-1$   
 $4x^2 - 3x - 10 - 2x^2 + 3x + 2 =$   
 $-2x^2 + 0x - 8 = -2x^2 - 8$

**MULTIPLYING:**  $\otimes \otimes \otimes$  "product"

Multiply coefficients, add exponents

1. monomial  $\cdot$  monomial:  $2xy \cdot 10xy^2 = 20x^2y^3$

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:  $(2x + 3)(x + 2) =$  FOIL  
 $2x^2 + 4x + 3x + 6 =$

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

• FOIL:  
 $2x \begin{matrix} 3x & -5 \\ -2 & -3 \end{matrix} = 2x^2 - 10x - 4x + 15 = 2x^2 - 14x + 15$

4. binomial  $\cdot$  polynomial:  
 $(x + 5)(2x^2 + 3x - 7) =$

$x \begin{matrix} 2x^2 & 3x & -7 \\ 5x^2 & 15x & -35 \end{matrix} = 2x^3 + 3x^2 - 7x + 5x^2 + 15x - 35 = 2x^3 + 8x^2 + 8x - 35$

**DIVIDING:**  $\oslash$  "quotient"

Divide coefficients, subtract exponents

ex:  $\frac{6x^3y^2}{2x^2y} = 3xy$

$\frac{6x^3y^2}{2x^2y} = \frac{6}{2} \cdot \frac{x^3}{x^2} \cdot \frac{y^2}{y} = 3xy$

**Applications:**

**Perimeter:**  $\text{Add up all sides}$

ex:  $\begin{matrix} \text{ } & 3x & \\ \text{ } & \text{ } & \\ 2x & \text{ } & 5x \end{matrix}$  ex:  $P = 2x + 3x + 2x + 5x = 12x$

**Area:** Multiply length and width

ex:  $\begin{matrix} 3x & \\ \text{ } & 5x \end{matrix}$  ex:  $A = \frac{1}{2}bh = \frac{1}{2}(3x)(5x) = 7.5x^2$



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

ex:  $\begin{matrix} 3x & \\ \text{ } & 5x & \\ \text{ } & \text{ } & 2x \end{matrix}$  ex:  $V = 2x(3x)(5x) = 30x^3$

• **Area:**  $\text{ex: } 2x \cdot 3x = 6x^2$

• **Perimeter:**  $\text{ex: } 2x + 3x = 5x$

• **Subtraction:**  $\text{ex: } 2x - 3x = -x$

• **Multiplication:**  $\text{ex: } 2x \cdot 3x = 6x^2$

• **Division:**  $\text{ex: } \frac{2x}{3x} = \frac{2}{3}$

• **Equation:**  $\text{ex: } 2x + 3x = 5x$

# Nys Algebra 1 Regents Study Guide

**Regents Exambusters**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'Regents Exambusters' text.

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