

# Algebra 1 Regents Study Guide

**LIKE TERMS:** same variable and same exponent  
 if var. is  $x$  if var. is  $x^2$

**ADDITION:**  $\oplus$  "same"  
 - Only add **LIKE TERMS**  
 ex:  $(2x^2 + 4x^2 - 3) + (3x^2 - 2x^2 - 5x^2) =$   
 $2x^2 + 3x^2 - 4x^2 + 3x^2 - 5x^2 =$   
 $3x^2 - 3x^2 - 2 =$

**SUBTRACTION:**  $\ominus$  "different"  
 - Only subtract **LIKE TERMS**  
 ex:  $(4x^2 - 3x - 10) - (2x^2 - 3x - 2) =$  Distribute the  $-$   
 $4x^2 - 3x - 10 - 2x^2 + 3x + 2 =$   
 $-2x^2 - 8x - 8 =$

**MULTIPLYING:**  $\otimes \otimes \oplus$  "same"  
 Multiply coefficients, add exponents  
 1. monomial  $\times$  monomial:  $(3xy)(2xy) = 6x^2y^2 =$

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

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

= BOB  
 ex:  $\begin{matrix} 2x^2 & 3x & -1 \\ -x & -3 & \end{matrix} = 2x^2 - 3x + 3x - 9 =$   
 $2x^2 - 9x + 3 =$

4. binomial  $\times$  polynomial:  
 $(x + 2)(2x^2 + 3x - 7) =$   
 ex:  $\begin{matrix} x^2 & 3x & -7 \\ x & 2 & \end{matrix} = 2x^3 + 3x^2 - 7x^2 + 2x^2 + 6x - 14 =$   
 $2x^3 - 4x^2 + 6x - 14 =$

**DIFFERENTIALS:**  $\ominus$  "different"  
 Divide coefficients, subtract exponents  
 ex:  $\frac{6x^3 + 3x^2 - 4x}{2x} =$   
 $\frac{6x^3}{2x} - \frac{3x^2}{2x} - \frac{4x}{2x} =$   $3x^2 - 1.5x - 2 =$   
 $3x^2 - 1.5x - 2 =$

## Applications:

**Perimeter:**  $\text{Add up all sides}$   
 ex:  $\square$  ex:  $\square$   $2x + 3x + 2x + 3x =$   
 $10x = 10$

**Area:**  $\text{Multiply length and width}$   
 ex:  $\square$   $l = 1, w = 2$   
 $A = l \times w = 1 \times 2 = 2 =$



**Volume:**  $\text{Multiply length, width, and height}$   
  
 ex:  $l = 2, w = 3, h = 4$   $V = l \times w \times h = 2 \times 3 \times 4 = 24 =$

**Area:**  $\text{Area, per}$   
 $\frac{\text{Area}}{\text{per}} =$

**Subtraction:**  $\text{Area, per}$   
 $\frac{\text{Area}}{\text{per}} =$

**Multiplication:**  $\text{Area, multiplied by}$   
 $\text{Area} \times$

**Division:**  $\text{Area of, quotient of}$   
 $\frac{\text{Area}}{\text{per}} =$

**Equals:**  $\text{is, are, was, were, goes, yours}$

# Algebra Regents Study Guide

**Camilla Rothe**



## **Algebra Regents Study Guide:**

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Algebra Regents Study Guide**

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