

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

SUBTRACTION: \ominus "difference"

- Only subtract **LIKE TERMS**

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

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
 $6x^4 + 12x^3 + 15x^2$

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

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

• FOIL:
 $2x \begin{matrix} 3x & 2x \\ 2x^2 & 4x^2 \\ -3 & -6 \end{matrix} = 2x^3 + 4x^2 + 6x - 6$
 $+ \begin{matrix} 2x^2 & 4x^2 \\ -6 & -6 \end{matrix} = 2x^3 + 6x^2 + 6x - 12$

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

$x \begin{matrix} 2x^2 & 3x & -7 \\ 2x^3 & 3x^2 & -7x \\ 5x^2 & 15x & -35 \end{matrix} = 2x^3 + 8x^2 + 8x - 35$
 $+ 5 \begin{matrix} 2x^2 & 3x & -7 \\ 10x^2 & 15x & -35 \end{matrix} = 2x^3 + 13x^2 + 23x - 58$

INTERPOLAR: \oplus "quotient"

Divide coefficients, subtract exponents

ex: $\frac{6x^3 + 12x^2 - 6x}{2x^2} =$
 $\frac{6x^3}{2x^2} - \frac{12x^2}{2x^2} - \frac{6x}{2x^2} = 3x - 6 - \frac{3}{x}$

$\frac{6x^3}{2x^2} = 3x$
 $\frac{12x^2}{2x^2} = 6$
 $\frac{6x}{2x^2} = \frac{3}{x}$

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



Volume: Multiply length, width, and height

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

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

Perimeter: Add up all sides

• **Subtraction:** $\text{Subtract all terms}$

Multiplication: $\text{Multiply all terms}$

• **Division:** Divide all terms

• **Equation:** $\text{Set up an equation}$

Latin Regents Study Guide

D Kirk



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