

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

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: $2x^2 \cdot 5xy^3 = 10x^3y^3 = 20xy^3$

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
 $2x^2 + 4x + 3x + 6 =$

$(2x^2 + 7x + 6) - (x^2 + 5x + 3) =$
 $2x^2 + 7x + 6 - x^2 - 5x - 3 =$
 $x^2 + 2x + 3$

• FOIL:
 $2x \begin{matrix} +3 \\ -5 \end{matrix} \begin{matrix} +2 \\ -3 \end{matrix} = 2x^2 - 6x + 4x - 6 =$
 $2x^2 - 2x - 6$

4. binomial $\cdot$ polynomial:
 $(x + 5)(2x^2 + 3x - 7) =$
 $x \begin{matrix} 2x^2 & 3x & -7 \\ +5 & +5 & +5 \end{matrix} = 2x^3 + 3x^2 - 7x + 10x^2 + 15x - 35 =$
 $2x^3 + 13x^2 + 8x - 35$

INTERPOLATION: $\oplus$ "average"

Divide coefficients, subtract exponents

ex: $\frac{2x^2 + 4x^2 - 3}{2} = \frac{6x^2 + 4x^2 - 3}{2} =$
 $\frac{6x^2}{2} + \frac{4x^2}{2} - \frac{3}{2} = 3x^2 + 2x^2 - 1.5 =$
 $5x^2 - 1.5$

$\frac{2x^2}{2} = x^2$
 $\frac{4x^2}{2} = 2x^2$
 $\frac{-3}{2} = -1.5$

Applications:

Perimeter: Add up all sides

ex: $\begin{matrix} 2x \\ 3x \end{matrix} \begin{matrix} 2x \\ 3x \end{matrix} =$ Per. $2x + 3x + 2x + 3x =$
 $10x$

Area: Multiply length and width

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



Volume: Multiply length, width, and height

ex: $\begin{matrix} 2x \\ 3x \\ 4x \end{matrix} \begin{matrix} 2x \\ 3x \end{matrix} =$ Volume $2x \cdot 3x \cdot 4x = 24x^3$

• **Area:** $\text{length} \cdot \text{width}$

Perimeter: $\text{length} + \text{width} + \text{length} + \text{width}$

• **Subtraction:** $\text{minuend} - \text{subtrahend}$

Division: $\text{dividend} \div \text{divisor}$

• **Multiplication:** $\text{factor} \cdot \text{multiplier}$

Interpolation: $\frac{\text{sum}}{\text{count}}$

• **Division:** $\text{dividend} \div \text{divisor}$

Equation: $\text{LHS} = \text{RHS}$

• **Equation:** $\text{LHS} = \text{RHS}$

Algebra 2notetaking Guide

Prentice-Hall Staff

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