

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

SUBTRACTION: $\ominus$ "difference"

- Only subtract **LIKE TERMS**

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

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

Multiply coefficients, add exponents

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

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

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

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

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

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

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

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: $\begin{matrix} \text{ } & 3x & \\ \text{ } & \text{ } & \\ 2x & \text{ } & 4x \end{matrix}$ ex: $P = 2x + 3x + 2x + 4x = 11x$
 $P = 11x$

Area: Multiply length and width

ex: $\begin{matrix} 3x & \\ \text{ } & 4x \end{matrix}$ ex: $A = \text{length} \cdot \text{width} = 3x \cdot 4x = 12x^2$
 $A = 12x^2$



Volume: Multiply length, width, and height

ex: $\begin{matrix} 3x & \\ \text{ } & 4x & \\ \text{ } & \text{ } & 5x \end{matrix}$ ex: $V = 2x(3x)(4x) = 24x^3$
 $V = 24x^3$

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

$\text{Area} = \text{length} \cdot \text{width}$

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

$\text{minuend} - \text{subtrahend} = \text{difference}$

• **Multiplication:** $\text{factor} \cdot \text{factor} = \text{product}$

$\text{factor} \cdot \text{factor} = \text{product}$

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

$\text{dividend} \div \text{divisor} = \text{quotient}$

• **Equation:** $a = b$, $a + b = c$, $a - b = c$, $a \cdot b = c$, $\frac{a}{b} = c$

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Regents Exambusters



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