

Algebra 1 Regents Study Guide

LIKE TERMS: same variable and same exponent
 if var. diff. $\checkmark$
 if var. & $\times$

ADDITION: $\oplus$ "sum"

- Only add **LIKE TERMS**

ex: $(2x^2 + 4x^2 - 3) + (3x^2 + 2x^2 - 5x^2) =$
 $2x^2 + 3x^2 + 4x^2 + 2x^2 - 5x^2 =$
 $2x^2 + 3x^2 + 4x^2 = 9x^2$

SUBTRACTION: $\ominus$ "difference"

- Only subtract **LIKE TERMS**

ex: $(4x^2 - 3x - 10) - (2x^2 - 3x - 2) =$ Distribute the -1
 $4x^2 - 3x - 10 - 2x^2 + 3x + 2 =$
 $-2x^2 + 6x - 12$

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:
 $2x \begin{matrix} 3x & -5 \\ 2x^2 & 8x \\ -3 & -3 \end{matrix} = 2x^3 - 10x + 6x^2 - 9$
 $= 2x^3 + 6x^2 - 10x - 9$

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

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

INTERPOLATION: $\oplus$ "average"

Divide coefficients, subtract exponents

ex: $\frac{2x^3 + 4x^2 - 3x}{2x^2} =$
 $\frac{2x^3}{2x^2} - \frac{4x^2}{2x^2} - \frac{3x}{2x^2} = \boxed{2x - 2 - \frac{3}{2x}}$

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

Applications:

Perimeter: Add up all sides

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

Area: Multiply length and width

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



Volume: Multiply length, width, and height

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

• **Area:** ex: $2x \cdot 3x = 6x^2$

• **Perimeter:** ex: $2x + 3x + 2x + 3x = 10x$

• **Subtraction:** ex: $2x^2 - 3x = 2x^2 - 3x$

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

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

• **Equation:** ex: $2x + 3x = 5x$

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