Absolutely! Here's a handy **LaTeX cheat sheet** tailored for high school-level mathematics. It covers the most common symbols and structures you'll use when writing math in LaTeX.

🧮 LaTeX Cheat Sheet for High School Math

✅ Basic Math Mode

- **Inline math**: `\( ... \)` or `$ ... $`
- **Display math**: `\[ ... \]` or `$$ ... $$`

🔢 Numbers & Operations

Symbol	LaTeX Code	Output
Addition	`a + b`	$a + b$
Subtraction	`a - b`	$a - b$
Multiplication	`a \times b`	$a \times b$
Division	`a \div b`	$a \div b$
Fraction	`\frac{a}{b}`	$\frac{a}{b}$
Exponent	`x^2`	x^2
Subscript	`x_1`	x_1
Square root	`\sqrt{x}`	$\sqrt{x}$
nth root	`\sqrt[n]{x}`	$\sqrt[n]{x}$

📐 Geometry

Symbol	LaTeX Code	Output
Angle	`\angle ABC`	$\angle ABC$
Triangle	`\triangle ABC`	$\triangle ABC$
Parallel	`AB \parallel CD`	$AB \parallel CD$
Perpendicular	`AB \perp CD`	$AB \perp CD$

📊 Algebra & Functions

Symbol	LaTeX Code	Output
Function	`f(x)`	$f(x)$
Absolute value	`	x	` \(x \)
Inequality	`a \leq b`, `a \geq b`	$a \leq b, a \geq b$
Not equal	`a \neq b`	$a \neq b$

📈 Calculus Basics

Symbol	LaTeX Code	Output
Limit	`\lim_{x \to 0}`	$\lim_{x \to 0}$
Derivative	`\frac{dy}{dx}`	$\frac{dy}{dx}$
Integral	`\int x^2 \, dx`	$\int x^2 \, dx$

🔣 Greek Letters

Name	LaTeX Code	Output
Pi	`\pi`	π
Theta	`\theta`	θ
Alpha	`\alpha`	α
Delta	`\Delta`	Δ

🧠 Bonus Tips

- Use `\cdot` for dot multiplication: $a \cdot b$
- Use `\text{...}` to insert regular text inside math mode: $\text{Area} = \pi r^2$
