# Mathematical Equations Example

This document demonstrates the LaTeX math equation support in markdown-docx.

## Inline Math

You can write inline equations like directly in your text. Here are more examples:

* Einstein's mass-energy equivalence:
* Pythagorean theorem:
* Quadratic formula:
* Greek letters: , , , , ,

## Block Math

For display equations, use double dollar signs:

### More Examples

The Pythagorean theorem:

Sum of Greek letters:

Inequality:

Mathematical operations:

## Supported Features

Currently supported LaTeX features:

1. **Superscripts**: ,
2. **Subscripts**: ,
3. **Greek letters**: , , , , , ,
4. **Operators**: , , ,
5. **Relations**: , , , ,
6. **Special symbols**: , ,

## Limitations

This is a basic implementation that converts LaTeX to Unicode text representation. For more complex equations with fractions, matrices, integrals, etc., a more sophisticated LaTeX-to-OMML converter would be needed.

## Future Enhancements

Potential improvements:

* Full LaTeX-to-OMML conversion for complex equations
* Support for fractions, radicals, matrices
* Support for integrals, summations, products
* Support for multi-line equations
* Better handling of nested expressions