

## Using Curio’s integrated equation editor

### Equation Editing in Curio

Curio Professional and Standard customers can create and edit equations using LaTeX, AsciiMath, or MathML syntax. Previews are instantly rendered as you type your equation. The final high quality and scalable PDF rendering occurs instantly on macOS Big Sur or above. If running on older macOS releases the final PDF rendering occurs in just a few seconds via a secure process running on Zengobi's server.

### Inserting an Equation

To insert an equation into the current idea space:

- Choose the Insert > Equation menu item (^⌘E).
- Or click the Insert toolbar button then choose the Equation item.

The equation editor will then appear for you to enter your new equation. As you type, the preview area instantly updates with a quick rendering of your equation. Use the Help button in the equation editor to see examples and browse references.

### Supported Syntaxes

Curio renders your typed equations using MathJax, the de facto standard in web-based equation typesetting for mathematics, science, and engineering. MathJax allows you to type that in one of three standard equation syntaxes:

- LaTeX →  $x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$
- AsciiMath → ``x=-b+- sqrt(b^2-4ac)/(2a)``
- MathML → `<math ...</math>`

Of the three, LaTeX is the most popular by far and MathML is the most verbose.

### Delimiters

Curio will assume an entered equation is LaTeX unless it finds one of the following in your typed equation:

- `$$` → Thus it assumes a LaTeX (technically TeX) equation of the format `$$..$$`
- `\[` or `\(` → Thus it assumes a LaTeX equation of the format `\[..]` or `\(..\)`
- ```` → Thus it assumes an AsciiMath equation of the format ```..```
- `<math` → Thus it assumes a MathML equation of the format `<math ...</math>`

### Inline Equations

To enter an inline equation use the newer `\(..\)` syntax like this:

When  $(a \neq 0)$ , there are two solutions to  $(ax^2 + bc + c = 0)$  and they are...

### Final Rendering

When you click to insert or update the equation on your idea space the equation is instantly rendered in PDF form on macOS Big Sur or above.

Otherwise, for customers on older macOS releases, the equation is quickly and securely broadcast to a complimentary service running on Zengobi's server to perform the final PDF rendering and then inserted into your idea space. Some key points about this procedure:

- This requires a connection to the Internet.
- This is generally very fast, like 1 or 2 seconds, although depends on your connection speed, equation complexity, etc.
- All communication occurs over a secure, encrypted https connection.
- After processing your equation is not stored on the server.

### Editing an Equation

Simply double-click your equation on the idea space to bring it back into the equation editor. Then click the Update button when you finish your changes.

### Help with Equations

Click the help button in the equation editor window to see the popup menu displayed here. It includes several examples in LaTeX, AsciiMath, and MathML form, and includes links to several useful websites for more information.