MTH 459, Quarto Tutorial #4, Spring 2025

Some aspects of these Quarto Tutorials will be review, but it will be good to have some clear and specific examples/templates for you to work with going forward and for presenting the results of your capstone project. Each of these Quarto tutorials will render a different type of document: HTML, Word, PowerPoint, and LaTeX/pdf.

Render your document as a LaTeX/pdf file directly.

Start with your file from the second quarto tutorial and make the following adjustments:

1. Update the YAML header to render the document to a LaTeX/pdf file instead of docx

   format: pdf

2. Go to the terminal (see image below; in the usual RStudio setup, this is on the bottom left of your screen) and type the command below at the command prompt.

   quarto install tinytex

3. Once the install is completed, render your document.

4. Based on the document you receive, if you are displaying code, make sure it all appears properly on screen or add soft returns so that it does (unlike an HTML file, there is no slider on a pdf to view long strings of code). Re-render the file to make sure it now displays in a readable way.

5. Update your formulas, for inline text:

   \(z_{n+1} = z_n^2 + c \)

   Or for block formulas:

   $$
   z_{n+1} = z_n^2 + c
   $$

   Note: you must enter these math commands in the source code rather than the visual editor. The visual editor will treat them like literals (that you want the symbols to print as is and will

code them that way, rather than treating them as LaTeX instructions). If you enter them on the source code directly, they will render as desired.

If you prefer to use the Visual Editor, go to Insert, and select LaTeX Math and then whether you want it inline or not. And then type the formula into the popup box.

6. Add the following to the YAML header for math display packages:

    header-includes:
    - \usepackage{amsmath}
    - \usepackage{amssymb}
    - \usepackage{mathpazo}

7. Once all the updates are complete, render the final version of the document and submit your pdf into the dropbox in Blackboard.