

## Math 10 Homework 1 Description

In Homework 1, you are required to write a simple markdown file using Jupyter notebook, describing the **fundamental theorem of calculus**. The basic requirements are as follows:

1. Insert “Homework 1” as the **heading level 1**.
2. Insert your name and id as the **heading level 2**.
3. Insert “Fundamental Theorem of Calculus” as **the heading level 3**, and add the **link** to Wikipedia/Mathworld page below (choose one).

[https://en.wikipedia.org/wiki/Fundamental\\_theorem\\_of\\_calculus](https://en.wikipedia.org/wiki/Fundamental_theorem_of_calculus)

<https://mathworld.wolfram.com/FundamentalTheoremsOfCalculus.html>

4. State the theorem as Markdown, and insert the formula/equation using Latex. **Note that there are two parts of the theorem and you are expected to write both.** You can find the guidance to write the Latex expressions here

<https://www.math-linux.com/latex-26/faq/latex-faq/article/latex-derivatives-limits-sums-products-and-integrals>,

or from TA’s discussion file. **Please type all the contents by yourself, instead of simply copy and paste.**

5. Don’t forget to run all the cells.
6. Save the notebook with your name appended to the filename (for example, `Homework-01-peijiezhou.ipynb`), and **upload it to canvas**.

An example of Pythagorean theorem is provided as the Homework1\_example.ipynb file.

**Due:** 11:59 PM **PST**, Jan 15<sup>th</sup> Friday. No extension/makeup will be allowed.