

# Hanada Beamer Theme

Your Name

Your School

March 1, 2022

# Readme

- Download the template from Overleaf
- Use `xelatex` to compile the document
- Install font Carlito (<https://fontlibrary.org/en/font/carlito>)
- Use `\hl{text}` to highlight **text** or math  $\pi \approx 3.14$
- Remove `handout` option from line 1 to enable animation
  
- If you prefer to use `pdflatex`, you need to comment out line 11-14
- To remove the dark background color comment out line 19 on `hanada-beamer.sty`
  
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- See here for the copyright information on Carlito font

## Example Slide with Equations

- “Generalized” version of **Mean Value Theorem**
- For a continuous function  $\mu: [a, b] \rightarrow \mathbb{R}$ ,  $\exists c \in (a, b)$

$$\frac{\mu'(b) - \mu'(a)}{b - a} = \phi(a, b, c)$$

where

$$\phi(a, b, c) = \frac{1}{c - a} \left( \mu'(c) - \frac{\mu(c) - \mu(a)}{c - a} \right) + \frac{1}{c - b} \left( \mu'(c) - \frac{\mu(c) - \mu(b)}{c - b} \right)$$

- If  $\mu(x)$  is a polynomial function with degree 3, then  $c = (a + b)/2$  (Theorem 2.1 [Riedel & Sablik 2004])
- Recall the “standard” mean value theorem: For  $\mu: [a, b] \rightarrow \mathbb{R}$ ,  $\exists c \in (a, b)$

$$\frac{\mu(b) - \mu(a)}{b - a} = \mu'(c)$$