

# LuaSnip $\LaTeX$ Snippet Demos

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## Introduction

Some snippets in LuaSnip as a demonstration.

### Remarks

#### 1 Semantic Stuff

#### 2 Math

##### 2.1 Calculus

**Limits:** `\lim`. Use choice node for limsup.

$$\lim_{n \rightarrow \infty} \frac{1}{x} \quad \limsup_{n \rightarrow \infty} x.$$

**Derivatives/Partials:** `\dd` for the derivative symbol, `\part` for the partial derivative.

$$\frac{d}{dx} x^2 + x + 1 \quad \frac{\partial f(x, y)}{\partial x} x^2 y.$$

**Single Integrals:** `\dint`. Use choice node for line integral.

$$\int_{-\infty}^{\infty} \frac{1}{x} dx \quad \oint_{-\infty}^{\infty} x^2 dx.$$

**Multiple Integrals:**

## 2.2 Linear Algebra

$$\begin{bmatrix} - & \vec{v}_1 & - \end{bmatrix}$$

$$\oiint_V x^2 y \, dx \, dy.$$