## BAD VERSION

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## 1 Math in LaTeX

Here is some math in latex to read.

$$x^n + y^n = z^n$$

$$\int_0^{2\pi} \int_0^x y \sin(x) dy dx$$

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 5 \\ 5 \end{pmatrix}.$$

$$f(x) = \begin{cases} x^3 & x > 0\\ -x^4 & x \le 0 \end{cases}$$