

α -T_EX

L^AT_EX Meets Wolfram

α -T_EX is a L^AT_EX package which incorporates the typesetting ease on control of L^AT_EX with the power of the Wolfram Language. Some examples are seen below.

Graphics

```
\graphic{Plot[ Tan[x], {x, 0, 2*Pi}]}{tan}

\begin{figure}[h!]
\centering
\includegraphics[width=0.6\textwidth]{tan.png}
\caption{Plot of  $\tan(x)$  generated with the Wolfram API}
\end{figure}
```

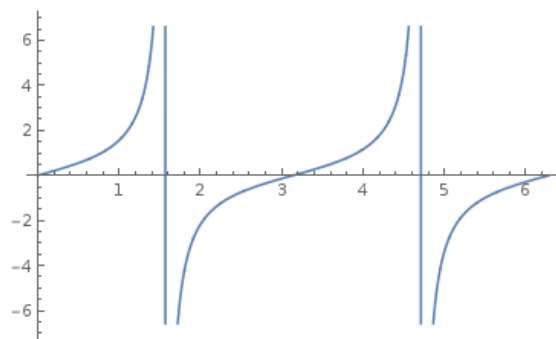


Figure 1: Plot of $\tan(x)$ generated with the Wolfram API

Calculations

```
3\times4\sin\left(\frac{\pi}{4}\right)=\calc{3*4 Sin[Pi/4]}
```

$$3 \times 4 \sin\left(\frac{\pi}{4}\right) = 6\sqrt{2}$$

```
\int_{10}^{30} e^x dx=\calc[Integrate [Exp[x], {x,10,35}]]//N}
```

$$\int_{10}^{30} e^x dx = 1.58601 \times 10^{15}$$

$\frac{d}{dx}x^2\log(x)=\text{calc}\{D[x^2 \text{Log}[x], x]\}$

$$\frac{d}{dx}x^2\log(x) = x + 2x\log(x)$$

Wolfram Alpha

The biggest city in china is $\text{WolframAlpha}\{\text{biggest city in china}\}$.

The biggest city in china is Shanghai.