



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

Calculations

$3 \times 4 \sin\left(\frac{\pi}{4}\right) =$ `$\$ \backslash \text{calc}\{3 * 4 \text{ Sin}[\text{Pi}/4]\} \$$` Produces:

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

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

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

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

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

Graphics

`$\backslash \text{graphic}\{\text{Plot}[\text{ Tan}[x], \{x, 0, 2 * \text{Pi}\}]\} \{ \text{tan} \} [h!]$`

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\begin{figure}
\centering
\includegraphics[width=0.8\textwidth]{tan.png}
\caption{Plot of  $\tan(x)$  generated with the Wolfram API}
\end{figure}
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