$$
\begin{aligned}
\pi &= 3.14159\,26535\,89793\ldots \\
&= \frac{22}{7} - \int_0^1 \frac{x^4(1-x)^4}{1+x^2}dx \\
&= 4\int_0^1 \sqrt{1-x^2}\,dx \\
&= 4\arctan 1 \\
&= 16\arctan\frac{1}{5} - 4\arctan\frac{1}{239} \\
&= \sqrt{6\sum_{n=1}^{\infty}\frac{1}{n^2}} \\
&= \frac{\sqrt{6}}{\sqrt{\prod_{\text{primes } p} 1-\frac{1}{p^2}}} \\
&= -\sqrt{-1}\log(-1) \\
&= \frac{9801}{\sqrt{8}\sum_{n=0}^{\infty}\frac{(4n)!(1103+26390n)}{(n!)^4 396^{4n}}} \\
&= 3+\cfrac{1}{7+\cfrac{1}{15+\cfrac{1}{1+\cfrac{1}{292+\cdots}}}} \\
&= 3+\cfrac{1^2}{6+\cfrac{3^2}{6+\cfrac{5^2}{6+\cfrac{7^2}{6+\cfrac{9^2}{6+\cdots}}}}} \\
&= 4\left(\int_0^\infty e^{-x^2}dx\right)^2 \\
&= \mathrm{RootOf}[\sin x] \qquad (3<x<4)
\end{aligned}
$$