

$$\frac{1}{\pi}\!=\!\frac{12}{\sqrt{640320^3}}\sum_{k=0}^\infty\,(-1)^k\frac{(6k)!}{(k!)^3(3k)!}\,\frac{13591409+545140134k}{(640320^3)^k}$$

$$\pi=\frac{2\operatorname{AGM}^2(1,\frac{1}{\sqrt{2}})}{\frac{1}{2}-\sum_{k=1}^\infty 2^kc_k^2}$$

$$\pi = \sum_{i=0}^\infty \frac{(i!)^2 2^{i+1}}{(2i+1)!}$$

$$\frac{\pi}{4}=4\arctan\frac{1}{5}-\arctan\frac{1}{239}$$

$$\frac{\pi}{4}=44\arctan\frac{1}{57}+7\arctan\frac{1}{239}-12\arctan\frac{1}{682}+24\arctan\frac{1}{12943}$$

$$\frac{2}{\pi}=\frac{\sqrt{2}}{2}\cdot\frac{\sqrt{2+\sqrt{2}}}{2}\cdot\frac{\sqrt{2+\sqrt{2+\sqrt{2}}}}{2}\cdots$$

$$V_{0,n}\!=\!\frac{2}{\sqrt{2}}\cdot\frac{2}{\sqrt{2+\sqrt{2}}}\cdot\frac{2}{\sqrt{2+\sqrt{2+\sqrt{2}}}}\cdots\!\approx\!\frac{\pi}{2}$$

$$V_{k,n}\!=\!\frac{4^kV_{k-1,n+1}-V_{k-1,n}}{4^k-1}$$

$$C_k<\frac{1}{4-1}\frac{1}{4^2-1}\frac{1}{4^3-1}\cdots\frac{1}{4^k-1}\frac{\pi^{2k+3}}{2^{2k+3}(2k+3)!}$$

$$\mathbf{1}^{\otimes k}$$

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