A Bibliography of Publications on the Numerical Calculation of π

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$(\sin\alpha)/\alpha$ [128]. 0 [251]. 1 [264]. $1/\pi$ [224, 225, 289]. $1/\pi^2$ [243, 258, 225]. 10,000 [57]. 10,000,000 [155]. 16 [233]. 2,000 [39]. 2,576,980,370,000 [252]. **$24.95** [222]. 29,360,000 [112]. ${}_2H_2$ [262]. b [210]. C [306]. d [306]. e [221, 113, 107, 65, 38, 126, 32, 39, 40, 250, 13, 63]. $e^{-(\pi/2)} = i^i$ [15]. γ [77]. $\mathrm{GL}(n, Z)$ [110]. N [129, 163, 96, 110, 154]. ϕ [223, 230]. π [156, 221, 276, 111, 157, 203, 269, 35, 183, 140, 112, 113, 270, 313, 28, 23, 200, 70, 78, 139, 163, 17, 107, 309, 165, 92, 95, 101, 102, 119, 261, 44, 65, 212, 18, 223, 230, 298, 231, 71, 262, 216, 88, 166, 55, 152, 217, 66, 38, 213, 37, 24, 133, 299, 4, 272, 26, 21, 293, 128, 5, 9, 10, 285, 180, 232, 143, 148, 233, 115, 187, 116, 246, 122, 126, 247, 188, 93, 117, 286, 167, 181, 72, 27, 134, 182, 22, 129, 105, 135, 32, 39, 84, 234, 68, 97, 47, 29, 196, 168]. π [207, 57, 48, 235, 7, 214, 149, 14, 202, 40, 76, 19, 6, 58, 77, 274, 69, 11, 12, 36, 250, 175, 252, 310, 94, 62, 123, 30, 176, 220, 131, 16, 13, 145, 169, 302, 155, 53, 192, 63, 8, 170]. π, e [87, 106]. $\pi/12$ [31]. $\pi/4$ [46]. $\pi/8$ [31]. $\pi = 2\sum \mathrm{arccot} f_{2k+1}$ [79]. π^2 [260, 279, 125, 48]. π^4 [104]. $\pi\coth\pi$ [236]. q [246]. $\sqrt{2}$ [61, 64]. $\sqrt{2+\sqrt{2}}$ [250]. $\sum 1/k^2 = \pi^2/6$ [67]. $\sum_{k=1}^{\infty} 1/k^2 = \pi^2/6$ [54]. $\sum_{k=1}^{\infty} = \pi^2/6$ [73]. $\sum_{n=1}^{\infty} 1/n^2 = \pi^2/6$ [108]. $\sqrt{2}$ [87]. Z [110]. $\zeta(2) = \frac{\pi^2}{6}$ [288].

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Lambert:1768:MQP

[2] Johann Heinrich Lambert. Mémoire sur quelques propriétés remarquables des quantités transcendentes circulaires et logarithmiques. (French) [Note on some remarkable properties of circular and logarithmic transcendental quantities]. *Histoire de l'Académie (Berlin)*, XVII:265–322, ???? 1768. In this famous paper, Lambert proved that π is irrational. See [167] for

further remarks, a simplification of the proof, and references to earlier papers that discuss Lambert's proof.

Shanks:1853:CMC

[3] W. Shanks. *Contributions to Mathematics, Comprising Chiefly of the Rectification of the Circle to 607 Places of Decimals*. G. Bell, London, UK, 1853. xvi + 95 + 1 pp. LCCN QA467 .S53 1853.

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[5] J. W. L. Glaisher. Remarks on the calculation of π. *Messenger (2)*, II (??):119–128, ???? 1871.

Shanks:1873:ENV

[6] William Shanks. On the extension of the numerical value of π. *Proceedings of the Royal Society of London*, 21(??):315–319, May 15, 1873. CODEN PRSLAZ. ISSN 0370-1662. URL `http://www.jstor.org/stable/113051`.

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vonLindemann:1882:ZGN

[8] Carl Louis Ferdinand von Lindemann. Über die Zahl π. (German) [On the number π]. *Mathematische Annalen*, 20(??):213–225, ???? 1882. CODEN MAANA3. ISSN 0025-5831 (print), 1432-1807 (electronic). In this famous paper, von Lindemann proved that π is transcendental, showing that it is impossible to square the circle by compass and straightedge, a problem dating back before 400 BCE in Greece.

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