Addendum: The Factorization of the Ninth Fermat Number<br>Author(s): A. K. Lenstra, H. W. Lenstra, Jr., M. S. Manasse, J. M. Pollard<br>Source: Mathematics of Computation, Vol. 64, No. 211 (Jul., 1995), p. 1357<br>Published by: American Mathematical Society<br>Stable URL: http://www.jstor.org/stable/2153511<br>Accessed: 14/04/2009 06:21

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## ADDENDUM

A. K. Lenstra, H. W. Lenstra, Jr., M. S. Manasse \& J. M. Pollard, The factorization of the ninth Fermat number, Math. Comp. 61 (1993), 319-349.

In Section 1 of this article we questioned the wisdom of using numbers obtained from the digits of $\pi$ as test numbers for factoring algorithms. In this context it is of interest to observe that Gauss uses the number $314159265=\left[10^{8} \pi\right]$ to illustrate factoring methods (see [19, Art. 329]). This was pointed out by D. Shanks, who supplied the revised reference [44] as printed. Gauss uses also the number $43429448=\left[10^{8} / \log 10\right]$ and its factors in his examples (see [19, Arts. 325, 328.I, 329]), as well as the numerator of a continued fraction approximation to $\pi$ (see [19, Art. 328.II]). Any reader who wishes to follow in Gauss's footsteps will find a plentiful supply of digits of $\pi$ in our original reference [44]:
D. Shanks and J. W. Wrench, Jr., Calculation of $\pi$ to 100,000 decimals, Math. Comp. 16 (1962), 76-99.
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