p. 58, last formula but one; *for* $e^{-\alpha p}$ *read* e^{-ap}
p. 59, formula 1; *for* $(1 + h/p)$ *read* $(1 + (hp)^{-1})$
p. 59, third last formula; *for* $2A_1$ *read* A_1

I am indebted to A. ERDÉLYI for many of these corrections, some of which were communicated to him by O. VOELKER.

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219.—NBSMTP., *Tables of Fractional Powers*. New York, 1946.

Table 3, p. 34, *for* $\pi^{-10} = 1.0678289226\cdots$
read $\pi^{-10} = 1.0678279226\cdots$.

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220.—B. VAN DER POL, "On the non-linear partial differential equation satisfied by the logarithm of the Jacobi theta-functions, with arithmetical applications, I," Nederl. Akad. Wetensch., *Proc.*, s.A., v. 54 [*Indagationes Math.*, v. 13], 1951, p. 261–284.

p. 281 *for* β_{28} = 336 87218 32202 92775 96104 01280
read β_{28} = 436 56892 24858 87663 46104 01280

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UNPUBLISHED MATHEMATICAL TABLES

151[F].—A. GLODEN, Factorisation of $N^4 + 1$ for isolated values of N between 30000 and 40000, II. Two manuscript pages. Deposited in the UMT FILE.

This constitutes an extension of UMT **144** [*MTAC*, v. 6, 1952, p. 102] and gives 50 new factorisations.

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152[F].—A. GLODEN, *Table of the Least Solution of the Congruence* $2x^2 + 1 \equiv 0 (\mathrm{mod}\ p^2)$ *and Factorisation of the Corresponding Numbers* $2x^2 + 1$. Three manuscript pages. Deposited in the UMT FILE.

The prime p is taken less than 1000.
The largest number $2x^2 + 1$ factored is

$$2(380552)^2 + 1 = 3\cdot 11\cdot 883^2\cdot 11257.$$

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153[F].—A. GLODEN, *Factorisation Table for the Numbers* $N^8 + 1$, $N = 500$. Six typewritten pages. Deposited in the UMT FILE.

The table is an extension of CUNNINGHAM's[1] table to $N \leq 200$. Of its 500 numbers 147 are completely factored. All unknown factors exceed 600000.

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[1] A. J. C. CUNNINGHAM, *Binomial Factorisations.* V. 6, London 1923, p. 140–141.

154[F].—F. GRUENBERGER, *Lists of Primes.* Two sheets tabulated from punched cards. Deposited in the UMT FILE.

The list of primes is extended from 50039981 to 50060033. There are 1131 primes between these limits. This is a continuation of a list given in UMT **148** [*MTAC*, v. 6, p. 167].

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155[F].—R. J. PORTER, *Tables of Irregular Negative Determinants of exponent* $3n$. Typewritten manuscript on deposit in the UMT FILE.

The table gives the values of $D < 50000$ for which there is a determinant $-D$ which is irregular with an exponent of irregularity which is divisible by 3. [See DICKSON's *History*[1] for definition of these terms.]

The table is arranged by thousands. There are 11, 17, 21, $\cdots$, 43 D's in the first, second, $\cdots$, 50th thousand, a total of 1718 D's altogether. Most of these have exponent 3. Only $D = -17561$ has an exponent 6. Thirteen however have exponent 9. These are $-D = 3299$, 6075, 11907, 17739, 23571, 24300, 27675, 29403, 33075, 35235, 41067, 46899, and 47628. All other D's have exponent 3.

The list was constructed by making extracts from some hundreds of the writer's series of determinants of class-number $3k$. To each determinant in these series belongs a class which has the property of duplicating into its own opposite; e.g., the determinant 21481 has a class (149, 71, 178) which duplicates into (26522, 8117, 2485) and thence by reduction to (2485, -662, 185), (185, -78, 149) and (149, -71, 178).

These extracts are filed in numerical order with their corresponding A values (e.g., 149 in the above) and any determinants which have more than one entry of A values against them are irregular (exp. $3n$).

It is found, in practice, that to make extracts from the series for each block of 10,000 determinants takes approximately 40 hours' work.

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[1] L. E. DICKSON, *History of the Theory of Numbers*, v. 3, Washington 1927, New York, 1934, Chap. 5.

AUTOMATIC COMPUTING MACHINERY

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