143.

TABLES OF THE COVARIANTS M TO W OF THE BINARY QUIN-TIC: FROM THE SECOND, THIRD, FIFTH, EIGHTH, NINTH AND TENTH MEMOIRS ON QUANTICS.

[Arranged in the present form, 1889.]

THE binary quintic has in all (including the quintic itself and the invariants) 23 covariants, which I have represented by the capital letters, A, B, C, ... W (alternative forms of two of these are denoted by Q' and S'). The covariants A, ... L, and also Q, Q' were given in my Second Memoir on Quantics, and except Q and Q' are reproduced in the present reprint thereof, 141; in all these I gave not only the literal terms actually presenting themselves, but also the terms with zero coefficients; in the other covariants however, or in most of them, the terms with zero coefficients were omitted. It is very desirable to have in every case the complete series of literal terms, and in the covariants as here printed they are accordingly inserted: the number of terms is in each case known beforehand by the foregoing *af*-table, 142, and any omission is thus precluded; by means of this *af*-table we have the numbers of terms as shown in the following list.

I have throughout (as was done in the Ninth and Tenth Memoirs) expressed the literal terms in a slightly different form from that employed in the Second Memoir: this is done in order to show at a glance in each column the set of terms which contain a given power of *a*, and in each such set the terms which contain a given power of *b*.

The numerical verifications are also given not only for the entire column but for each set of terms containing the same power of *a*; viz. in most cases, but not always, the positive and negative coefficients of a set have equal sums, which are shown by

a number with the sign $\pm$ prefixed. The verification is in some cases given in regard to the subsets involving the same powers of a and b, here also the sums of the positive and negative coefficients are not in every case equal. The cases of inequality will be referred to at the end of this paper.

The whole series of covariants is as follows:

Mem.	No. of table.				deg-weight
2	13	A	=	$(1, 1, 1, 1, 1, 1\!\!\;\rangle\!\langle x, y)^5$	$1\ (0\ldots 5)$
,,	14	B	=	$(3, 3, 3\!\!\;\rangle\!\langle x, y)^2$	$2\ (4.6)$
,,	15	C	=	$(2, 2, 3, 3, 3, 2, 2\!\!\;\rangle\!\langle x, y)^6$	$2\ (2\ldots 8)$
,,	16	D	=	$(6, 6, 6, 6\!\!\;\rangle\!\langle x, y)^3$	$3\ (6..9)$
,,	17	E	=	$(5, 6, 6, 6, 6, 5\!\!\;\rangle\!\langle x, y)^5$	$3\ (5\ldots 10)$
,,	18	F	=	$(3, 4, 5, 6, 6, 6, 6, 5, 4, 3\!\!\;\rangle\!\langle x, y)^9$	$3\ (3\ldots\ldots 12)$
,,	19	G	=	$(12\!\!\;\rangle\!\langle x, y)^0,\ \text{Invt.}$	$4\text{-}10$
,,	20	H	=	$(11, 11, 12, 11, 11\!\!\;\rangle\!\langle x, y)^4$	$4\ (8\ldots 12)$
,,	21	I	=	$(9, 11, 11, 12, 11, 11, 9\!\!\;\rangle\!\langle x, y)^6$	$4\ (7\ldots\ldots 13)$
,,	22	J	=	$(20, 20\!\!\;\rangle\!\langle x, y)^1$	$5\ (12, 13)$
,,	23	K	=	$(19, 20, 20, 19\!\!\;\rangle\!\langle x, y)^3$	$5\ (11..14)$
,,	24	L	=	$(16, 18, 19, 20, 20, 19, 18, 16\!\!\;\rangle\!\langle x, y)^7$	$5\ (9\ldots\ldots 16)$
8	83	M	=	$(32, 32, 32\!\!\;\rangle\!\langle x, y)^2$	$6\ (14.16)$
,,	84	N	=	$(30, 32, 32, 32, 30\!\!\;\rangle\!\langle x, y)^4$	$6\ (13\ldots 17)$
9	90	O	=	$(49, 49\!\!\;\rangle\!\langle x, y)^1$	$7\ (1\,,\,18)$
,,	91	P	=	$(46, 48, 49, 49, 48, 46\!\!\;\rangle\!\langle x, y)^5$	$7\ (15\ldots 20)$
2	Q 25 / Q′ 26	Q, Q′	=	$(73\!\!\;\rangle\!\langle x, y)^0,\ \text{Invt.}$	$8\text{-}20$
9	92	R	=	$(71, 73, 71\!\!\;\rangle\!\langle x, y)^2$	$8\ (19.21)$
9 / 10	S 93 / S 93 *bis*	S, S′	=	$(101, 102, 102, 101\!\!\;\rangle\!\langle x, y)^3$	$9\ (21..24)$
9	94	T	=	$(190, 190\!\!\;\rangle\!\langle x, y)^1$	$11\ (27, 28)$
3	29	U	=	$(252\!\!\;\rangle\!\langle x, y)^0,\ \text{Invt.}$	$12\text{-}30$
9	95	V	=	$(325, 325\!\!\;\rangle\!\langle x, y)^1$	$13\ (32, 33)$
5	29A	W	=	$(967\!\!\;\rangle\!\langle x, y)^0,\ \text{Invt.}$	$18\text{-}45$

M. No. 83.

a^3	b^0ef^2	...	a^3	b^0f^3	...	a^2	b^1f^3	...
a^2	b^1df^2	...	a^2	b^1ef^2	...		b^0cef^2	...
	e^2f	...		b^0cdf^2	− 1		d^2f^2	− 1
	$b^0c^2f^2$	− 1		ce^2f	+ 1		de^2f	+ 2
	$cdef$	+ 5		d^2ef	+ 1		e^4	− 1
	ce^3	− 3		de^3	− 1	a^1	b^2ef^2	...
	d^3f	− 3	a^1	b^2df^2	+ 1		b^1cdf^2	+ 5
	d^2e^2	+ 2		e^2f	− 1		ce^2f	− 5
a^1	b^2cf^2	+ 2		$b^1c^2f^2$	+ 1		d^2ef	− 5
	def	− 5		$cdef$	+ 6		de^3	+ 5
	e^3	+ 3		d^3f	− 10		$b^0c^3f^2$	− 3
	b^1c^2ef	− 5		d^2e^2	+ 11		c^2def	+ 7
	cd^2f	+ 7		b^0c^3ef	− 10		c^2e^3	+ 2
	cde^2	− 1		c^2d^2f	+ 11		cd^3f	− 1
	d^3e	− 1		c^2de^2	+ 18		cd^2e^2	− 8
	b^0c^3df	− 1		cd^3e	− 28		d^4e	+ 3
	c^3e^2	+ 6		d^5	+ 9	a^0	b^3df^2	− 3
	c^2d^2e	− 8	a^0	b^3cf^2	− 1		e^2f	+ 3
	cd^4	+ 3		def	− 8		$b^2c^2f^2$	+ 2
a^0	b^4f^2	− 1		e^3	+ 9		$cdef$	− 1
	b^3cef	+ 5		b^2c^2ef	+ 11		ce^3	− 3
	d^2f	+ 2		cd^2f	+ 18		d^3f	+ 6
	de^2	− 3		cde^2	− 37		d^2e^2	− 4
	b^2c^2df	− 8		d^3e	+ 8		b^1c^3ef	− 1
	c^2e^2	− 4		b^1c^3df	− 28		c^2d^2f	− 8
	cd^2e	+ 7		c^3e^2	+ 8		c^2de^2	+ 7
	d^4	− 1		c^2d^2e	+ 37		cd^3e	+ 5
	b^1c^4f	+ 3		cd^4	− 17		d^5	− 3
	c^3de	+ 5		b^0c^5f	+ 9		b^0c^4df	+ 3
	c^2d^3	− 4		c^4de	− 17		c^3e^2	− 1
	b^0c^5e	− 3		c^3d^3	+ 8		c^2d^2e	− 4
	c^4d^2	− 2					c^2d^4	+ 2

$(\!(x, y)\!)^2$

± 7		± 2	± 2
21		57	22
24		108	28
± 52		± 167	± 52

N. No. 84.

Term	Coef	Term	Coef	Term	Coef	Term	Coef	Term	Coef
$a^3\,b^0df^2$	$-\ 1$	$a^3\,b^0ef^2$	$\ldots$	$a^3\,b^0f^3$	$\ldots$	$a^2\,b^1f^3$	$\ldots$	$a^2\,b^0cf^3$	$+\ 1$
e^2f	$+\ 1$	$a^2\,b^1df^2$	$-\ 4$	$a^2\,b^1ef^2$	$\ldots$	b^0cef^2	$+\ 4$	def^2	$-\ 3$
$a^2\,b^1cf^2$	$+\ 3$	e^2f	$+\ 4$	b^0cdf^2	$\ldots$	d^2f^2	$-\ 4$	e^3f	$+\ 2$
def	$+\ 2$	$b^0c^2f^2$	$+\ 4$	ce^2f	$+\ 6$	de^2f	$-\ 4$	$a^1\,b^2f^3$	$-\ 1$
e^3	$-\ 5$	$cdef$	$-\ 8$	d^2ef	$-\ 12$	e^4	$+\ 4$	b^1cef^2	$-\ 2$
b^0c^2ef	$-\ 8$	ce^3	$+\ 4$	de^3	$+\ 6$	$a^1\,b^2ef^2$	$-\ 4$	d^2f^2	$+\ 8$
cd^2f	$+\ 2$	d^3f	$\ldots$	$a^1\,b^2df^2$	$-\ 6$	b^1cdf^2	$+\ 8$	de^2f	$-\ 2$
cde^2	$+\ 12$	d^2e^2	$\ldots$	e^2f	$\ldots$	ce^2f	$-\ 16$	e^4	$-\ 6$
d^3e	$-\ 6$	$a^1\,b^2cf^2$	$+\ 4$	$b^1c^2f^2$	$+\ 12$	d^2ef	$+\ 48$	$b^0c^2df^2$	$-\ 2$
$a^1\,b^3f^2$	$-\ 2$	def	$+\ 16$	$cdef$	$\ldots$	de^3	$-\ 32$	c^2e^2f	$+\ 6$
b^2cef	$-\ 2$	e^3	$-\ 24$	ce^3	$-\ 36$	$b^0c^3f^2$	$\ldots$	cd^2ef	$-\ 20$
d^2f	$-\ 6$	b^1c^2ef	$-\ 48$	d^3f	$+\ 48$	c^2def	$-\ 40$	cde^3	$+\ 12$
de^2	$+\ 13$	cd^2f	$+\ 40$	d^2e^2	$-\ 12$	c^2e^3	$+\ 56$	d^4f	$+\ 9$
b^1c^2df	$+\ 20$	cde^2	$+\ 40$	b^0c^3ef	$-\ 48$	cd^3f	$+\ 8$	d^3e^2	$-\ 6$
c^2e^2	$+\ 4$	d^3e	$-\ 24$	c^2d^2f	$\ldots$	cd^2e^2	$-\ 40$	$a^0\,b^3ef^2$	$+\ 5$
cd^2e	$-\ 52$	b^0c^3df	$-\ 8$	c^2de^2	$+\ 156$	d^4e	$+\ 12$	b^2cdf^2	$-\ 12$
d^4	$+\ 24$	c^3e^2	$+\ 56$	cd^3e	$-\ 168$	$a^0\,b^3df^2$	$-\ 4$	ce^2f	$-\ 13$
b^0c^4f	$-\ 9$	c^2d^2e	$-\ 88$	d^5	$+\ 54$	e^2f	$+\ 24$	d^2ef	$-\ 4$
c^3de	$+\ 20$	cd^4	$+\ 36$	$a^0\,b^3cf^2$	$-\ 6$	$b^2c^2f^2$	$\ldots$	de^3	$+\ 15$
c^2d^3	$-\ 10$	$a^0\,b^4f^2$	$-\ 4$	def	$+\ 36$	$cdef$	$-\ 40$	$b^1c^3f^2$	$+\ 6$
$a^0\,b^4ef$	$+\ 6$	b^3cef	$+\ 32$	e^3	$\ldots$	ce^3	$-\ 60$	c^2def	$+\ 52$
b^3cdf	$+\ 12$	d^2f	$-\ 56$	b^2c^2ef	$+\ 12$	d^3f	$-\ 56$	c^2e^3	$-\ 10$
ce^2	$-\ 15$	de^2	$+\ 60$	cd^2f	$-\ 156$	d^2e^2	$+\ 100$	cd^3f	$-\ 20$
d^2e	$+\ 10$	b^2c^2df	$+\ 40$	cde^2	$\ldots$	b^1c^3ef	$+\ 24$	cd^2e^2	$-\ 30$
b^2c^3f	$+\ 6$	c^2e^2	$-\ 100$	d^3e	$+\ 60$	c^2d^2f	$+\ 88$	d^4e	$+\ 15$
c^2de	$+\ 30$	cd^2e	$-\ 80$	b^1c^3df	$+\ 168$	c^2de^2	$+\ 80$	b^0c^4ef	$-\ 24$
cd^3	$-\ 20$	d^4	$+\ 60$	c^3e^2	$-\ 60$	cd^3e	$-\ 200$	c^3d^2f	$+\ 10$
b^1c^4e	$-\ 15$	b^1c^4f	$-\ 12$	c^2d^2e	$\ldots$	d^5	$+\ 60$	c^3de^2	$+\ 20$
c^3d^2	$+\ 10$	c^3de	$+\ 200$	cd^4	$-\ 30$	b^0c^4df	$-\ 36$	c^2d^3e	$-\ 10$
b^0c^5d	$\ldots$	c^2d^3	$-\ 120$	b^0c^5f	$-\ 54$	c^4e^2	$-\ 60$	cd^5	$\ldots$
		b^0c^5e	$-\ 60$	c^4de	$+\ 30$	c^3d^2e	$+\ 120$		
		c^4d^2	$+\ 40$	c^3d^3	$\ldots$	c^2d^4	$-\ 40$		

$(x,\ y)^4$

$\pm\ 1$	$\pm\ 12$	$\pm\ 12$	$\pm\ 8$	$\pm\ 3$
19	192	270	132	37
81	432	306	496	123
62				
$\pm\ 163$	$\pm\ 636$	$\pm\ 588$	$\pm\ 636$	$\pm\ 163$

O. No. 90.

$$
\left(
\begin{array}{rr}
a^3\ b^0cf^3 & +\ 1 \\
def^2 & -\ 4 \\
e^3f & +\ 3 \\
a^2\ b^2f^3 & -\ 1 \\
b^1cef^2 & -\ 3 \\
d^2f^2 & +\ 16 \\
de^2f & +\ 4 \\
e^4 & -\ 15 \\
b^0c^2df^2 & -\ 6 \\
c^2e^2f & +\ 4 \\
cd^2ef & -\ 22 \\
cde^3 & +\ 26 \\
d^4f & +\ 9 \\
d^3e^2 & -\ 12 \\
a^1\ b^3ef^2 & +\ 7 \\
b^2cdf^2 & -\ 30 \\
ce^2f & +\ 1 \\
d^2ef & -\ 74 \\
de^3 & +\ 84 \\
b^1c^3f^2 & +\ 18 \\
c^2def & +\ 160 \\
c^2e^3 & -\ 98 \\
cd^3f & -\ 20 \\
cd^2e^2 & -\ 94 \\
d^4e & +\ 51 \\
b^0c^4ef & -\ 81 \\
c^3d^2f & +\ 18 \\
c^3de^2 & +\ 140 \\
c^2d^3e & -\ 100 \\
cd^5 & +\ 18 \\
a^0\ b^4df^2 & +\ 8 \\
e^2f & -\ 18 \\
b^3c^2f^2 & -\ 6 \\
cdef & +\ 32 \\
ce^3 & +\ 45 \\
d^3f & +\ 112 \\
d^2e^2 & -\ 150 \\
b^2c^3ef & -\ 6 \\
c^2d^2f & -\ 284 \\
c^2de^2 & +\ 50 \\
cd^3e & +\ 320 \\
d^5 & -\ 120 \\
b^1c^4df & +\ 216 \\
c^4e^2 & -\ 15 \\
c^3d^2e & -\ 310 \\
c^2d^4 & +\ 130 \\
b^0c^6f & -\ 54 \\
c^5de & +\ 90 \\
c^4d^3 & -\ 40 \\
\end{array}
\quad
\begin{array}{rr}
a^3\ b^0df^3 & -\ 1 \\
e^2f^2 & +\ 1 \\
a^2\ b^1cf^3 & +\ 4 \\
def^2 & +\ 3 \\
e^3f & -\ 7 \\
b^0c^2ef^2 & -\ 16 \\
cd^2f^2 & +\ 6 \\
cde^2f & +\ 30 \\
ce^4 & -\ 8 \\
d^3ef & -\ 18 \\
d^2e^3 & +\ 6 \\
a^1\ b^3f^3 & -\ 3 \\
b^2cef^2 & -\ 4 \\
d^2f^2 & -\ 4 \\
de^2f & -\ 1 \\
e^4 & +\ 18 \\
b^1c^2df^2 & +\ 22 \\
c^2e^2f & +\ 74 \\
cd^2ef & -\ 160 \\
cde^3 & -\ 32 \\
d^4f & +\ 81 \\
d^3e^2 & +\ 6 \\
b^0c^4f^2 & -\ 9 \\
c^3def & +\ 20 \\
c^3e^3 & -\ 112 \\
c^2d^3f & -\ 18 \\
c^2d^2e^2 & +\ 284 \\
cd^4e & -\ 216 \\
d^6 & +\ 54 \\
a^0\ b^4ef^2 & +\ 15 \\
b^3cdf^2 & -\ 26 \\
ce^2f & -\ 84 \\
d^2ef & +\ 98 \\
de^3 & -\ 45 \\
b^2c^3f^2 & +\ 12 \\
c^2def & +\ 94 \\
c^2e^3 & +\ 150 \\
cd^3f & -\ 140 \\
cd^2e^2 & -\ 50 \\
d^4e & +\ 15 \\
b^1c^4ef & -\ 51 \\
c^3d^2f & +\ 100 \\
c^3de^2 & -\ 320 \\
c^2d^3e & +\ 310 \\
cd^5 & -\ 90 \\
b^0c^5df & -\ 18 \\
c^5e^2 & +\ 120 \\
c^4d^2e & -\ 130 \\
c^3d^4 & +\ 40 \\
\end{array}
\right)(x,\,y)^1
$$

±	4	±	1
	59		49
	497		559
	1003		954
±1563		±1563	

P. No. 91.

Column 1

$a^4\ b^0f^3$ ...
$a^3\ b^1ef^2$ ...
$b^0cdf^2\ +\ 1$
$ce^2f\ -\ 2$
$d^2ef\ +\ 2$
$de^3\ -\ 1$
$a^2\ b^2df^2\ -\ 1$
$e^2f\ +\ 2$
$b^1c^2f^2\ -\ 3$
$cdef\ -\ 6$
$ce^3\ +\ 13$
$d^3f\ -\ 8$
$d^2e^2\ +\ 2$
$b^0c^3ef\ +\ 16$
$c^2d^2f\ -\ 2$
$c^2de^2\ -\ 38$
$cd^3e\ +\ 34$
$d^5\ -\ 9$
$a^1\ b^3cf^2\ +\ 5$
$def\ +\ 2$
$e^3\ -\ 12$
$b^2c^2ef\ -\ 24$
$cd^2f\ +\ 52$
$cde^2\ +\ 7$
$d^3e\ -\ 22$
$b^1c^3df\ -\ 52$
$c^3e^2\ +\ 34$
$c^2d^3e\ +\ 8$
$cd^4\ -\ 1$
$b^0c^5f\ +\ 18$
$c^4de\ -\ 25$
$c^3d^3\ +\ 10$
$a^0\ b^5f^2\ -\ 2$
$b^4cef\ +\ 10$
$d^2f\ -\ 28$
$de^2\ +\ 30$
$b^3c^3df\ +\ 32$
$c^2e^2\ -\ 35$
$cd^2e\ -\ 50$
$d^4\ +\ 30$
$b^2c^4f\ -\ 12$
$c^3de\ +\ 70$
$c^2d^3\ -\ 40$
$b^1c^5e\ -\ 15$
$c^4d^2\ +\ 10$
b^0c^6d ...

$\pm\ 3$
67
136
182
± 388

Column 2

$a^3\ b^2f^3$ ...
$b^0cef^2\ -\ 2$
$d^2f^2\ +\ 5$
$de^2f\ -\ 1$
$e^4\ -\ 2$
$a^2\ b^2ef^2\ +\ 2$
$b^0cdf^2\ -\ 17$
$ce^2f\ +\ 13$
$d^2ef\ -\ 32$
$de^3\ +\ 32$
$b^0c^3f^2\ +\ 4$
$c^2def\ +\ 36$
$c^2e^3\ -\ 24$
$cd^3f\ -\ 10$
$cd^2e^2\ -\ 16$
$d^4e\ +\ 12$
$a^1\ b^3df^2\ +\ 7$
$e^2f\ -\ 12$
$b^2c^2f^2\ +\ 6$
$cdef\ +\ 42$
ce^3 ...
$d^3f\ +\ 54$
$d^2e^2\ -\ 91$
$b^1c^3ef\ -\ 68$
$c^2d^2f\ -\ 64$
$c^2de^2\ +\ 14$
$cd^3e\ +\ 204$
$d^5\ -\ 93$
$b^0c^4df\ +\ 37$
$c^4e^2\ +\ 86$
$c^3d^2e\ -\ 208$
$c^2d^4\ +\ 86$
$a^0\ b^4cf^2\ -\ 5$
$def\ -\ 12$
e^3 ...
$b^3c^2ef\ +\ 34$
$cd^2f\ -\ 46$
$cde^2\ +\ 105$
$d^3e\ -\ 20$
$b^2c^3df\ +\ 50$
$c^3e^2\ -\ 110$
$c^2d^2e\ -\ 170$
$cd^4\ +\ 115$
$b^1c^5f\ -\ 21$
$c^4de\ +\ 250$
$c^3d^3\ -\ 150$
$b^0c^6e\ -\ 60$
$c^5d^2\ +\ 40$

$\pm\ 5$
99
536
594
± 1234

Column 3

$a^3\ b^0cf^3\ -\ 1$
$def^2\ +\ 6$
$e^3f\ -\ 5$
$a^2\ b^2f^3\ +\ 1$
$b^1cef^2\ -\ 11$
$d^2f^2\ -\ 4$
$de^2f\ -\ 4$
$e^4\ +\ 17$
$b^0c^2df^2\ +\ 2$
$c^2e^2f\ -\ 2$
$cde^3\ -\ 40$
$d^4f\ -\ 9$
$d^3e^2\ +\ 24$
$a^1\ b^3ef^2\ +\ 5$
$b^2cdf^2\ -\ 4$
$ce^2f\ +\ 35$
$d^2ef\ -\ 26$
$de^3\ -\ 22$
$b^1c^3f^2\ +\ 10$
$c^2def\ -\ 72$
$c^2e^3\ -\ 106$
$cd^3f\ +\ 76$
$cd^2e^2\ +\ 210$
$d^4e\ -\ 99$
$b^0c^4ef\ -\ 13$
$c^3d^2f\ -\ 10$
$c^3de^2\ +\ 128$
$c^2d^3e\ -\ 184$
$cd^5\ +\ 72$
$a^0\ b^4df^2\ +\ 4$
$e^2f\ -\ 42$
$b^3c^2f^2\ -\ 8$
$cdef\ +\ 124$
$ce^3\ +\ 105$
$d^3f\ +\ 56$
$d^2e^2\ -\ 130$
$b^2c^3ef\ -\ 26$
$c^2d^2f\ -\ 296$
$c^2de^2\ -\ 170$
$cd^3e\ +\ 340$
$d^5\ -\ 60$
$b^1c^4df\ +\ 260$
$c^4e^2\ +\ 25$
$c^3d^2e\ -\ 150$
c^2d^4 ...
$b^0c^6f\ -\ 72$
$c^5de\ +\ 40$
c^4d^3 ...

$\pm\ 6$
70
536
954
± 1566

Column 4

$a^3\ b^0df^3\ +\ 1$
$e^2f^2\ -\ 1$
$a^2\ b^1cf^3\ -\ 6$
$def^2\ +\ 11$
$e^3f\ -\ 5$
$b^0c^2ef^2\ +\ 4$
$cd^2f^2\ -\ 2$
$cde^2f\ +\ 4$
$ce^4\ -\ 4$
$d^3ef\ -\ 10$
$d^2e^3\ +\ 8$
$a^1\ b^3f^3\ +\ 5$
$b^2cef^2\ +\ 4$
$d^2f^2\ -\ 26$
$de^2f\ -\ 35$
$e^4\ +\ 42$
$b^1c^2df^2\ +\ 2$
$c^2e^2f\ +\ 26$
$cd^2ef\ +\ 72$
$cde^3\ -\ 124$
$d^4f\ +\ 13$
$d^3e^2\ +\ 26$
$b^0c^4f^2\ +\ 9$
$c^3def\ -\ 76$
$c^3e^3\ -\ 56$
$c^2d^3f\ +\ 10$
$c^2d^2e^2\ +\ 296$
$cd^4e\ -\ 260$
$d^6\ +\ 72$
$a^0\ b^4ef^2\ -\ 17$
$b^3cdf^2\ +\ 40$
$ce^2f\ +\ 22$
$d^2ef\ +\ 106$
$de^3\ -\ 105$
$b^2c^3f^2\ -\ 24$
$c^2def\ -\ 210$
$c^2e^3\ +\ 130$
$cd^3f\ -\ 128$
$cd^2e^2\ +\ 170$
$d^4e\ +\ 25$
$b^1c^4ef\ +\ 99$
$c^3d^2f\ +\ 184$
$c^3de^2\ -\ 340$
$c^2d^3e\ +\ 150$
$cd^5\ -\ 40$
$b^0c^5df\ -\ 72$
$c^4e^2\ +\ 60$
c^4d^2e ...
c^3d^4 ...

$\pm\ 1$
27
577
961
± 1566

Column 5

$a^3\ b^0ef^3$ ...
$a^2\ b^1df^3\ +\ 2$
$e^2f^2\ -\ 2$
$b^0c^2f^3\ -\ 5$
$cdef^2\ +\ 17$
$ce^3f\ -\ 7$
$d^3f^2\ -\ 4$
$d^2e^2f\ -\ 6$
$de^4\ +\ 5$
$a^1\ b^2cf^3\ +\ 1$
$def^2\ -\ 13$
$e^3f\ +\ 12$
$b^1c^2ef^2\ +\ 32$
$cd^2f^2\ -\ 36$
$cde^2f\ -\ 42$
$ce^4\ +\ 24$
$d^3ef\ +\ 56$
$d^2e^3\ -\ 34$
$b^0c^3df^2\ +\ 10$
$c^3e^2f\ -\ 54$
$c^2d^2ef\ +\ 64$
$c^2de^3\ +\ 46$
$cd^4f\ -\ 37$
$cd^3e^2\ -\ 50$
$d^5e\ +\ 21$
$a^0\ b^4f^3\ +\ 2$
$b^3cef^2\ -\ 32$
$d^2f^2\ +\ 24$
de^2f ...
e^4 ...
$b^2c^2df^2\ +\ 16$
$c^2e^2f\ +\ 91$
$cd^2ef\ -\ 14$
$cde^3\ -\ 105$
$d^4f\ -\ 86$
$d^3e^2\ +\ 110$
$b^1c^4f^2\ -\ 12$
$c^3def\ -\ 204$
$c^3e^3\ +\ 20$
$c^2d^3f\ +\ 208$
$c^2d^2e^2\ +\ 170$
$cd^4e\ -\ 250$
$d^6\ +\ 60$
$b^0c^5ef\ +\ 93$
$c^4d^2f\ -\ 86$
$c^4de^2\ -\ 115$
$c^3d^3e\ +\ 150$
$c^2d^5\ -\ 40$

$\pm\ 24$
266
944
± 1234

Column 6

$a^3\ b^0f^4$ ...
$a^2\ b^1ef^3$ ...
$b^0cdf^3\ -\ 1$
$ce^2f^2\ +\ 1$
$d^2ef^2\ +\ 3$
$de^3f\ -\ 5$
$e^5\ +\ 2$
$a^1\ b^2df^3\ +\ 2$
$e^2f^2\ -\ 2$
$b^1c^2f^3\ -\ 2$
$cdef^2\ +\ 6$
$ce^3f\ -\ 2$
$d^3f^2\ -\ 16$
$d^2e^2f\ +\ 24$
$de^4\ -\ 10$
$b^0c^2ef^2\ +\ 8$
$c^2d^2f^2\ +\ 2$
$c^2de^2f\ -\ 52$
$c^2e^4\ +\ 28$
$cd^3ef\ +\ 52$
$cd^2e^3\ -\ 32$
$d^5f\ -\ 18$
$d^4e^2\ +\ 12$
$a^0\ b^3cf^3\ +\ 1$
$def^2\ -\ 13$
$e^3f\ +\ 12$
$b^2c^2ef^2\ -\ 2$
$cd^2f^2\ +\ 38$
$cde^2f\ -\ 7$
$ce^4\ -\ 30$
$d^3ef\ -\ 34$
$d^2e^3\ +\ 35$
$b^1c^3df^2\ -\ 34$
$c^3e^2f\ +\ 22$
$c^2d^2ef\ -\ 8$
$c^2de^3\ +\ 50$
$cd^4f\ +\ 25$
$cd^3e^2\ -\ 70$
$d^5e\ +\ 15$
$b^0c^5f^2\ +\ 9$
$c^4def\ +\ 1$
$c^4e^3\ -\ 30$
$c^3d^3f\ -\ 10$
$c^3d^2e^2\ +\ 40$
$c^2d^4e\ -\ 10$
cd^6 ...

$\pm\ 6$
134
248
± 388

$\mathfrak{Q}(x,\ y)^5$

Q. No. 25.   Q'. No. 26.   Q. No. 25.   Q'. No. 26.

Term	Q. No. 25	Q'. No. 26
$a^4\ b^0 f^4$	...	+ 1
$a^3\ b^1 ef^3$	...	− 20
$b^0 cdf^3$	+ 1	− 120
$ce^2 f^2$	− 1	+ 160
$d^2 ef^2$	− 3	+ 360
$de^3 f$	+ 5	− 640
e^5	− 2	+ 256
$a^2\ b^2 df^3$	− 1	+ 160
$e^2 f^2$	+ 1	− 10
$b^1 c^2 f^3$	− 3	+ 360
$cdef^2$	+ 11	− 1640
$ce^3 f$	− 5	+ 320
$d^3 f^2$	+ 12	− 1440
$d^2 e^2 f$	− 30	+ 4080
de^4	+ 15	− 1920
$b^0 c^3 ef^2$	+ 12	− 1440
$c^2 d^2 f^2$	− 21	+ 2640
$c^2 de^2 f$	− 34	+ 4480
$c^2 e^4$	+ 22	− 2560
$cd^3 ef$	+ 78	− 10080
$cd^2 e^3$	− 48	+ 5760
$d^5 f$	− 27	+ 3456
$d^4 e^2$	+ 18	− 2160
$a^1\ b^3 cf^3$	+ 5	− 640
def^2	− 5	+ 320
$e^3 f$	...	− 180
$b^2 c^2 ef^2$	− 30	+ 4080
$cd^2 f^2$	− 34	+ 4480
$cde^2 f$	+ 133	− 14920
ce^4	− 54	+ 7200
$d^3 ef$	− 18	+ 960
$d^2 e^3$	+ 3	− 600
$b^1 c^3 df^2$	+ 78	− 10080
$c^3 e^2 f$	− 18	+ 960
$c^2 d^2 ef$	− 220	+ 28480
$c^2 de^3$	+ 106	− 16000
$cd^4 f$	+ 93	− 11520
$cd^3 e^2$	− 30	+ 7200
$d^5 e$	− 9	...
$b^0 c^5 f^2$	− 27	+ 3456
$c^4 def$	+ 93	− 11520
$c^4 e^3$	− 38	+ 6400
$c^3 d^3 f$	− 42	+ 5120
$c^3 d^2 e^2$	+ 8	− 3200
$c^2 d^4 e$	+ 6	...
cd^6	...	...
$a^0\ b^5 f^3$	− 2	+ 256
$b^4 cef^2$	+ 15	+ 1920
$d^2 f^2$	+ 22	− 2560
$de^2 f$	− 54	+ 7200

Term	Q. No. 25	Q'. No. 26
$a^0\ b^4 e^4$	+ 27	− 3375
$b^3 c^2 df^2$	− 48	+ 5760
$c^2 e^2 f$	+ 3	− 600
$cd^2 ef$	+ 106	− 16000
cde^3	− 81	+ 9000
$d^4 f$	− 38	+ 6400
$d^3 e^2$	+ 38	− 4000
$b^2 c^4 f^2$	+ 18	− 2160
$c^3 def$	− 30	+ 7200
$c^3 e^3$	+ 38	− 4000
$c^2 d^3 f$	+ 8	− 3200
$c^2 d^2 e^2$	+ 25	+ 2000
$cd^4 e$	− 57	...
d^6	+ 18	...
$b^1 c^5 ef$	− 9	...
$c^4 d^2 f$	+ 6	...
$c^4 de^2$	− 57	...
$c^3 d^3 e$	+ 74	...
$c^2 d^5$	− 24	...
$b^0\ c^6 df$	...	...
$c^6 e^2$	+ 18	...
$c^5 d^2 e$	− 24	...
$c^4 d^4$	+ 8	...

The sums for Q' are

$$
\begin{aligned}
1 &= 1 \\
776 - 780 &= -4 \\
21256 - 21250 &= +6 \\
68656 - 68660 &= -4 \\
37816 - 37815 &= +1 \\
\hline
128505 - 128505 &= 0
\end{aligned}
$$

± 6   ± 128505
169
525
424
―――――
±1124

R. No. 92.

$a^4\ b^0ef^3$ ...	$a^0\ b^4ce^2f - 15$	$a^4\ b^0f^4$ ...	$a^0\ b^4e^4$ ...	$a^3\ b^1f^4$ ...	$a^0\ b^3d^3ef + 2$
$a^3\ b^0\ df^3$ ...	$d^2ef - 38$	$a^3\ b^1ef^3$ ...	$b^3c^2df^2 + 18$	b^0cef^3 ...	$d^2e^3 + 15$
e^2f^2 ...	$de^3 + 45$	b^0cdf^3 ...	$c^2e^2f - 66$	$d^2f^3 + 1$	$b^2c^3df^2 - 32$
$b^0c^2f^3 - 1$	$b^3c^3f^2 + 3$	ce^2f^2 ...	$cd^2ef + 20$	$de^2f^2 - 2$	$c^3e^2f - 39$
$cdef^2 + 6$	$c^2def + 102$	$d^2ef^2 + 2$	cde^3 ...	$e^4f + 1$	$c^2d^2ef - 24$
$ce^3f - 4$	$c^2e^3 - 15$	$de^3f - 4$	$d^4f + 58$	$a^2\ b^2ef^3$ ...	$c^2de^3 + 175$
$d^3f^2 - 3$	$cd^3f + 76$	$e^5 + 2$	$d^3e^2 - 50$	$b^1cdf^3 - 6$	$cd^4f + 25$
$d^2e^2f + 1$	$cd^2e^2 - 175$	$a^2\ b^2df^3$ ...	$b^2c^4f^2 - 6$	$ce^2f^2 + 6$	$cd^3e^2 - 120$
$de^4 + 1$	$d^4e + 35$	e^2f^2 ...	$c^3def + 72$	$d^2ef^2 + 3$	$d^5e + 15$
$a^2\ b^0cf^3 + 2$	$b^2c^4ef - 42$	$b^1c^2f^3 - 2$	$c^3e^3 + 50$	de^3f ...	$b^1c^5f^2 + 9$
$def^2 - 6$	$c^3d^2f - 182$	$cdef^2$ ...	$c^2d^3f - 156$	$e^5 - 3$	$c^4def + 106$
$e^3f + 4$	$c^3de^2 + 120$	$ce^3f + 4$	$c^2d^2e^2$ ...	$b^0c^3f^3 + 3$	$c^4e^3 - 35$
$b^1c^2ef^2 - 3$	$c^2d^3e + 150$	$d^3f^2 - 14$	$cd^4e + 90$	$c^2def^2 - 3$	$c^3d^3f - 60$
$cd^2f^2 + 3$	$cd^5 - 70$	$d^2e^2f + 30$	$d^6 - 30$	$c^2e^3f - 6$	$c^3d^2e^2 - 150$
$cde^2f - 18$	$b^1c^5df + 126$	$de^4 - 18$	$b^1c^5ef - 24$	cd^3f^2 ...	$c^2d^4e + 175$
$ce^4 + 17$	$c^5e^2 - 15$	$b^0c^3ef^2 + 14$	$c^4d^2f + 94$	$cd^2e^2f + 3$	$cd^6 - 45$
$d^3ef + 22$	$c^4d^2e - 175$	$c^2d^2f^2$ ...	$c^4de^2 - 90$	$cde^4 + 6$	$b^0c^6ef - 36$
$d^2e^3 - 21$	$c^3d^4 + 75$	$c^2de^2f - 66$	c^3d^3e ...	d^4ef ...	$c^5d^2f + 21$
$b^0c^3df^2$ ...	$b^0c^7f - 27$	$c^2e^4 + 26$	$c^2d^5 + 10$	$d^3e^3 - 3$	$c^5de^2 + 70$
$c^3e^2f + 13$	$c^6de + 45$	$cd^3ef + 56$	$b^0c^6df - 18$	$a^1\ b^3df^3 + 4$	$c^4d^3e - 75$
$c^2d^2ef - 12$	$c^5d^3 - 20$	$cd^2e^3 - 18$	$c^6e^2 + 30$	$e^2f^2 + 4$	$c^3d^5 + 20$
$c^2de^3 - 21$		$d^5f - 18$	$c^5d^2e - 10$	$b^2c^2f^3 - 1$	
$cd^4f - 3$		$d^4e^2 + 6$	c^4d^4 ...	$cdef^2 + 18$	
$cd^3e^2 + 32$		$a^1\ b^3cf^3 + 4$		$ce^3f - 16$	
$d^5e - 9$		$def^2 - 4$		$d^3f^2 - 13$	
$a^1\ b^4f^3 - 1$		e^3f ...		$d^2e^2f - 3$	
b^3cef^2 ...		$b^2c^2ef^2 - 30$		$de^4 + 15$	
$d^2f^2 + 6$		$cd^2f^2 + 66$		$b^1c^3ef^2 - 22$	
$de^2f + 16$		cde^2f ...		$c^2d^2f^2 + 12$	
$e^4 - 18$		$ce^4 - 18$		$c^2de^2f + 18$	
$b^2c^2df^2 - 3$		$d^3ef - 84$		$c^2e^4 + 38$	
$c^2e^2f + 3$		$d^2e^3 + 66$		$cd^3ef + 32$	
$cd^2ef - 18$		$b^1c^3df^2 - 56$		$cd^2e^3 - 102$	
$cde^3 + 14$		$c^3e^2f + 84$		$d^5f - 18$	
$d^4f - 41$		c^2d^2ef ...		$d^4e^2 + 42$	
$d^3e^2 + 39$		$c^2de^3 - 20$		$b^0c^4df^2 + 3$	
$b^1c^4f^2$ ...		$cd^4f + 40$		$c^4e^2f + 41$	
$c^3def - 32$		$cd^3e^2 - 72$		$c^3d^2ef - 84$	
$c^3e^3 - 2$		$d^5e + 24$		$c^3de^3 - 76$	
$c^2d^3f + 84$		$b^0c^5f^2 + 18$		$c^2d^4f + 33$	
$c^2d^2e^2 + 24$		$c^4def - 40$		$c^2d^3e^2 + 182$	
$cd^4e - 106$		$c^4e^3 - 58$		$cd^5e - 126$	
$d^6 + 36$		c^3d^3f ...		$d^7 + 27$	
$b^0c^5ef + 18$		$c^3d^2e^2 + 156$		$a^0\ b^4cf^3 - 1$	
$c^4d^2f - 33$	$\pm\ \ 8$	$c^2d^4e - 94$	$\pm\ \ 4$	$def^2 - 17$	$\pm\ \ 2$
$c^4de^2 - 25$	93	$cd^6 + 18$	136	$e^3f + 18$	21
$c^3d^3e + 60$	300	$a^0\ b^5f^3 - 2$	476	$b^3c^2ef^2 + 21$	465
$c^2d^5 - 21$	780	$b^4cef^2 + 18$	478	$cd^2f^2 + 21$	693
$a^0\ b^5ef^2 + 3$		$d^2f^2 - 26$		$cde^2f - 14$	
$b^4cdf^2 - 6$	±1181	$de^2f + 18$	±1094	$ce^4 - 45$	±1181

$(x,\ y)^2$.

S. No. 93 bis; S'. No. 93. (*❬x, y❭)³.

Coef. x³	S	S'
a⁴ b¹f⁴	...	...
b⁰cef³	...	+ 9
d²f³	...	+ 21
de²f²	...	− 78
c⁴f	...	+ 48
a³ b²ef³	...	− 9
b¹cdf³	...	− 162
ce²f²	...	+ 99
d²ef²	...	+ 309
de³f	...	+ 12
e⁵	...	− 240
b⁰c³f³	− 2	− 81
c²def²	+ 15	+ 1026
c²e²f	− 9	− 768
cd³f²	− 9	− 738
cd²e²f	− 6	− 564
cde⁴	+ 9	+ 1056
d⁴ef	+ 9	+ 756
d³e³	− 7	− 696
a² b³df³	...	+ 120
e²f²	...	− 21
b²c²f³	+ 6	+ 486
cdef²	− 30	− 2160
ce³f	+ 18	+ 1023
d³f²	+ 9	+ 120
d²e²f	+ 6	+ 1053
de⁴	− 9	+ 1314
b¹c³ef²	− 15	− 1863
c²d²f²	+ 21	+ 2538
c²de²f	− 6	+ 2340
c²e⁴	+ 18	+ 672
cd³ef	+ 30	+ 2820
cd²e³	− 51	− 7812
d⁵f	− 36	− 3024
d⁴e²	+ 39	+ 4572
b⁰c⁴df²	− 3	− 324
c⁴e²f	+ 45	+ 3888
c³d²ef	− 84	− 8748
c³de³	− 63	− 4800
c²d⁴f	+ 45	+ 4248
c²d³e²	+ 150	+ 14520
cd⁵e	− 117	− 11448
d⁷	+ 27	+ 2592
a¹ b⁴cf³	− 6	− 576
def²	+ 15	+ 672
e³f	− 9	− 459
b³c²ef²	+ 30	+ 3456
cd²f²	− 15	− 864
cde²f	+ 24	+ 2094
ce⁴	− 45	− 3915

Coef. x³	S	S'
a¹ b³d³ef	− 66	+ 528
d²e³	+ 72	− 45
b²c³df²	− 21	− 2592
c³e²f	− 96	− 9747
c²d²ef	+ 36	− 8496
c²de³	+ 213	+ 26610
cd⁴f	+ 120	+ 8544
cd³e²	− 303	− 16650
d⁵e	+ 51	+ 720
b¹c⁵f²	+ 9	+ 972
c⁴def	+ 174	+ 24624
c⁴e³	− 36	− 5040
c³d³f	− 204	− 15984
c³d²e²	− 174	− 29340
c²d⁴e	+ 330	+ 34320
cd⁶	− 99	− 8640
b⁰c⁶ef	− 63	− 7776
c⁵d²f	+ 66	+ 5184
c⁵de²	+ 99	+ 12960
c⁴d³e	− 147	− 14400
c³d⁵	+ 45	+ 3840
a⁰ b⁶f³	+ 2	+ 192
b⁵cef²	− 15	− 1440
d²f²	− 6	− 192
de²f	− 18	− 1080
e⁴	+ 27	+ 2025
b⁴c²df²	+ 24	+ 1728
c²e²f	+ 51	+ 4410
cd²ef	+ 102	+ 5280
cde³	− 171	− 13500
d⁴f	+ 6	− 4800
d³e²	+ 18	+ 7800
b³c⁴f²	− 9	− 648
c³def	− 210	− 14040
c³e³	+ 43	+ 3075
c²d²f	− 120	+ 9120
c²d²e²	+ 345	+ 16350
cd⁴e	− 87	− 19200
d⁶	− 2	+ 4800
b²c⁵ef	+ 72	+ 4860
c⁴d²f	+ 240	− 3240
c⁴de²	− 192	− 8100
c³d³e	− 186	+ 9000
c²d⁵	+ 96	− 2400
b¹c⁶df	− 144	...
c⁶e²	+ 18	...
c⁵d²e	+ 201	...
c⁴d⁴	− 87	...
b⁰c⁸f	+ 27	...
c⁷de	− 45	...
c⁶d³	+ 20	...

Coef. x²y	S	S'
a⁴ b⁰cf⁴	...	+ 9
def³	...	− 45
e³f²	...	+ 36
a³ b²f⁴	...	− 9
b¹cef³	...	− 18
d²f³	...	+ 243
de²f²	...	+ 9
e⁴f	...	− 216
b⁰c²df³	− 3	− 351
c²e²f²	+ 3	+ 144
cd²ef²	+ 24	+ 1836
cde³f	− 42	− 2592
ce⁵	+ 18	+ 1152
d⁴f²	− 18	− 1458
d³e²f	+ 33	+ 2268
d²e⁴	− 15	− 1008
a² b³ef³	...	+ 63
b²cdf³	+ 6	− 234
ce²f²	− 6	− 18
d²ef²	− 24	− 3231
de³f	+ 42	+ 4293
e⁵	− 18	− 972
b¹c³f³	+ 3	+ 810
c²def²	− 78	− 3825
c²e³f	+ 69	+ 4032
cd³f²	+ 93	+ 7938
cd²e²f	− 51	− 9360
cde⁴	− 33	− 864
d⁴ef	− 57	− 1296
d³e³	+ 54	+ 2700
b⁰c⁴ef²	+ 24	+ 324
c³d²f²	− 36	− 2484
c³de²f	− 9	+ 6624
c³e⁴	− 54	− 6912
c²d³ef	+ 24	− 4428
c²d²e³	+ 129	+ 12672
cd⁵f	+ 9	+ 1944
cd⁴e²	− 114	− 9072
d⁶e	+ 27	+ 1944
a¹ b⁴df³	− 3	+ 144
e²f²	+ 3	− 243
b³c²f³	− 6	− 900
cdef²	+ 108	+ 10620
ce³f	− 96	− 8586
d³f²	− 21	− 864
d²e²f	− 48	− 1215
de⁴	+ 63	+ 1215
b²c³ef²	− 24	− 1836
c²d²f²	− 123	− 16812
c²de²f	+ 147	+ 6651

Coef. x²y	S	S'
a¹ b²c²e⁴	+ 66	+ 12960
cd²ef	+ 78	+ 18612
cd²e³	− 186	− 18900
d⁵f	+ 51	− 3888
d⁴e²	− 9	+ 2970
b¹c⁴df²	+ 111	+ 15228
c⁴e²f	− 78	− 4968
c³d²ef	− 36	− 14544
c³de³	− 54	− 12960
c²d⁴f	− 96	+ 1296
c²d³e²	+ 150	+ 22500
cd⁵e	+ 30	− 6480
d⁷	− 27	...
b⁰c⁶f²	− 27	− 3888
c⁵def	+ 24	+ 5184
c⁵e³	+ 54	+ 5760
c⁴d³f	+ 27	− 576
c⁴d²e²	− 93	− 9360
c³d⁴e	+ 6	+ 2880
c²d⁶	+ 9	...
a⁰ b⁵cf³	+ 3	+ 288
def²	− 30	− 3888
e³f	+ 27	+ 3645
b⁴c²ef²	...	+ 756
cd²f²	+ 51	+ 7488
cde²f	− 39	− 4050
ce⁴	− 27	− 6075
d³ef	+ 60	− 4320
d²e³	− 45	+ 6075
b³c³df²	− 39	− 7128
c²e²f	+ 45	+ 2970
c²d²ef	− 108	+ 3060
c²de³	+ 96	+ 10125
cd⁴f	− 111	+ 1440
cd³e²	+ 147	− 13950
d⁵e	− 30	+ 3600
b²c⁵f²	+ 9	+ 1944
c⁴def	+ 6	− 1620
c⁴e³	− 48	− 4500
c³d³f	+ 234	− 360
c³d²e²	− 150	+ 6300
c²d⁴e	− 108	− 1800
cd⁶	+ 57	...
b¹c⁶ef	+ 9	...
c⁵d²f	− 141	...
c⁵de²	+ 87	...
c⁴d³e	+ 96	...
c³d⁵	− 51	...
b⁰c⁷df	+ 27	...
c⁷e²	− 18	...
c⁶d³e	− 21	...
c⁵d⁴	+ 12	...

For the Numerical Verifications for S see further pp. 304, 305.

Left group —
S: ± 33, 414, 1284, 1292, ±3023
S': ± 78, 3258, 41253, 124524, 68640, ±237753

Right group —
S: ± 78, 480, 927, 966, ±2451
S': ± 45, 5652, 43020, 106020, 47691, ±202428

S. No. 93 bis; S′. No. 93.

Coef. xy^2	S	S′	Coef. xy^2	S	S′	Coef. y^3	S	S′	Coef. y^3	S	S′
$a^4\,b^0df^4$	...	− 9	$a^1\,b^1c^3e^4$	− 60	+ 4320	$a^4\,b^0ef^4$	...	...	$a^1\,b^1d^5e^2$	− 72	− 4860
e^2f^3	...	+ 9	c^2d^2ef	+ 36	+ 14544	$a^3\,b^1df^4$	...	− 9	$b^0c^5ef^2$	+ 36	+ 3024
$a^3\,b^1cf^4$	..	+ 45	$c^2d^2e^3$	+ 108	− 3060	e^2f^3	...	+ 9	$c^4d^2f^2$	− 45	− 4248
def^3	...	+ 18	cd^5f	− 24	− 5184	$b^0c^2f^4$	...	− 21	c^4de^2f	− 120	− 8544
e^3f^2	...	− 63	cd^4e^2	− 6	+ 1620	$cdef^3$	...	+ 162	c^4e^4	− 6	+ 4800
$b^0c^2ef^3$	...	− 243	d^6e	− 9	...	ce^3f^2	...	− 120	c^3d^3ef	+ 204	+ 15984
cd^2f^3	+ 3	+ 351	$b^0c^5df^2$	− 9	− 1944	d^3f^3	+ 2	+ 81	$c^3d^2e^3$	+ 120	− 9120
cde^2f^2	− 6	+ 234	c^5e^2f	− 51	+ 3888	$d^2e^2f^2$	− 6	− 486	c^2d^5f	− 66	− 5184
ce^4f	+ 3	− 144	c^4d^2ef	+ 96	− 1296	de^4f	+ 6	+ 576	$c^2d^4e^2$	− 240	+ 3240
d^2ef^2	− 3	− 810	c^4de^3	+ 111	− 1440	e^6	− 2	− 192	cd^6e	+ 144	...
d^2e^3f	+ 6	+ 900	c^3d^4f	− 27	+ 576	$a^2\,b^2cf^4$	...	+ 78	d^8	− 27	...
de^5	− 3	− 288	$c^3d^3e^2$	− 234	+ 360	def^3	...	+ 99	$a^0\,b^5ef^3$	...	+ 240
$a^2\,b^3f^4$	...	− 36	c^2d^5e	+ 141	...	e^3f^2	...	+ 21	b^4cdf^3	− 9	− 1056
b^2cef^3	...	− 9	cd^7	− 27	...	$b^1c^2ef^3$	...	− 309	ce^2f^2	+ 9	− 1314
d^2f^3	− 3	− 144	$a^0\,b^5df^3$	− 18	− 1152	cd^2f^3	− 15	− 1026	d^2ef^2	− 18	− 672
de^2f^2	+ 6	+ 18	e^2f^2	+ 18	+ 972	cde^2f^2	+ 30	+ 2160	de^3f	+ 45	+ 3915
e^4f	− 3	+ 243	$b^4c^2f^3$	+ 15	+ 1008	ce^4f	− 15	− 672	e^5	− 27	− 2025
$b^1c^5df^3$	− 24	− 1836	$cdef^2$	+ 33	+ 864	d^3ef^2	+ 15	+ 1863	$b^3c^3f^3$	+ 7	+ 696
$c^2e^2f^2$	+ 24	+ 3231	ce^3f	− 63	− 1215	d^2e^3f	− 30	− 3456	c^2def^2	+ 51	+ 7812
cd^2ef^2	+ 78	+ 3825	d^3f^2	+ 54	+ 6912	de^5	+ 15	+ 1440	c^2e^3f	− 72	+ 45
cde^3f	− 108	− 10620	d^2e^2f	− 66	− 12960	$b^0c^3df^3$	+ 9	+ 738	cd^3f^2	+ 63	+ 4800
ce^5	+ 30	+ 3888	de^4	+ 27	+ 6075	$c^3e^2f^2$	− 9	− 120	cd^2e^2f	− 213	− 26610
d^4f^2	− 24	+ 324	$b^3c^3ef^2$	− 54	− 2700	$c^2d^2ef^2$	− 21	− 2538	cde^4	+ 171	+ 13500
d^3e^2f	+ 24	+ 1836	$c^2d^2f^2$	− 129	− 12672	c^2de^3f	+ 15	+ 864	d^4ef	+ 36	+ 5040
d^2e^4	...	− 756	c^2de^2f	+ 186	+ 18900	c^2e^5	+ 6	+ 192	d^3e^3	− 43	− 3075
$b^0c^4f^3$	+ 18	+ 1458	c^2e^4	+ 45	− 6075	cd^4f^2	+ 3	+ 324	$b^2c^4ef^2$	− 39	∓ 4572
c^3def^2	− 93	− 7938	cd^3ef	+ 54	+ 12960	cd^3e^2f	+ 21	+ 2592	$c^3d^2f^2$	− 150	− 14520
c^3e^3f	+ 21	+ 864	cd^2e^3	− 96	− 10125	cd^2e^4	− 24	− 1728	c^3de^2f	+ 303	+ 16650
$c^2d^3f^2$	+ 36	+ 2484	d^5f	− 54	− 5760	d^5ef	− 9	− 972	c^3e^4	− 18	− 7800
$c^2d^2e^2f$	+ 123	+ 16812	d^4e^2	+ 48	+ 4500	d^4e^3	+ 9	+ 648	c^2d^3ef	+ 174	+ 29340
c^2de^4	− 51	− 7488	$b^2c^4df^2$	+ 114	+ 9072	$a^1\,b^4f^4$	...	+ 48	$c^2d^2e^3$	− 345	− 16350
cd^4ef	− 111	− 15228	c^4ef^2	+ 9	+ 2970	b^3cef^3	...	+ 12	cd^7	− 99	− 12960
cd^3e^3	+ 39	+ 7128	c^3d^2ef	− 150	− 22500	d^2f^3	+ 9	+ 768	cd^4e^2	+ 192	+ 8100
d^6f	+ 27	+ 3888	c^3de^3	− 147	+ 13950	de^2f^2	− 18	− 1023	d^6e	− 18	...
d^5e^2	− 9	− 1944	c^2d^4f	+ 93	+ 9360	e^4f	+ 9	+ 459	$b^1c^6df^2$	+ 117	+ 11448
$a^1\,b^4ef^3$	...	+ 216	$c^2d^3e^2$	+ 150	− 6300	$b^2c^2df^3$	+ 6	+ 564	c^5e^2f	− 51	− 720
b^3cdf^3	+ 42	+ 2592	cd^5e	− 87	...	$c^2e^2f^2$	− 6	+ 1053	c^4d^2ef	− 330	− 34320
ce^2f^2	− 42	− 4293	d^7	+ 18	...	cd^2ef^2	+ 6	− 2340	c^4de^3	+ 87	+ 19200
d^2ef^2	− 69	− 4032	$b^1c^6f^2$	− 27	− 1944	cde^3f	− 24	− 2094	c^3d^4f	+ 147	+ 14400
de^3f	+ 96	+ 8586	c^5def	− 30	+ 6480	ce^5	+ 18	+ 1080	$c^3d^3e^2$	+ 186	− 9000
e^5	− 27	− 3645	c^5e^3	+ 30	+ 3600	d^4f^2	− 45	− 3888	c^2d^5e	− 201	...
$b^2c^3f^3$	− 33	− 2268	c^4d^3f	− 6	− 2880	d^3e^2f	+ 96	+ 9747	cd^7	+ 45	...
c^2def^2	+ 51	+ 9360	$c^4d^2e^2$	+ 108	+ 1800	d^2e^4	− 51	− 4410	$b^0c^7f^2$	− 27	− 2592
c^2e^3f	+ 48	+ 1215	c^3d^4e	− 96	...	$b^1c^4f^3$	− 9	− 756	c^6def	+ 99	+ 8640
cd^3f^2	+ 9	− 6624	c^2d^6	+ 21	...	c^3def^2	− 30	− 2820	c^6e^3	+ 2	+ 4800
cd^2e^2f	− 147	− 6651	b^0c^7ef	+ 27	...	c^3e^3f	+ 66	− 528	c^5d^3f	− 45	− 3840
cde^4	+ 39	+ 4050	c^6d^2f	− 9	...	$c^2d^3f^2$	+ 84	+ 8748	$c^5d^2e^2$	− 96	+ 2400
d^4ef	+ 78	+ 4968	c^6de^2	− 57	...	$c^2d^2e^2f$	− 36	+ 8496	c^4d^4e	+ 87	...
d^3e^3	− 45	− 2970	c^5d^3e	+ 51	...	c^2de^4	− 102	− 5280	c^3d^6	− 20	...
$b^1c^6ef^2$	+ 57	+ 1296	c^4d^5	− 12	...	cd^4ef	− 174	− 24624			
$c^3d^2f^2$	− 24	+ 4428				cd^3e^3	+ 210	+ 14040			
c^3de^2f	− 78	− 18612				d^6f	+ 63	+ 7776			

Left totals (under xy^2 group):

S	S′
	± 9
± 12	1548
426	45999
912	62019
1101	92853
±2451	±202428

Right totals (under y^3 group):

S	S′
± 8	± 828
123	10920
1071	79779
1821	146226
±3023	±237753

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x coefficient.		x coefficient.					
$a^5\ b^0cf^5$	...	$a^2\ b^3d^3f^3$	$-\ 20$	$a^1\ b^3c^2d^2ef^2$	$+\ 153$	$a^0\ b^4c^4f^3$	$-\ 6$
def^4	...	$d^2e^2f^2$	$+\ 33$	c^2de^3f	$-\ 390$	c^3def^2	$+\ 240$
e^3f^3	...	de^4f	$+\ 48$	c^2e^5	$-\ 234$	c^3e^3f	$+\ 179$
$a^4\ b^1f^5$	...	e^6	$+\ 27$	cd^4f^2	$-\ 114$	$c^2d^3f^2$	$-\ 144$
b^1cef^4	...	$b^2c^3ef^3$	$+\ 39$	cd^3e^2f	$-\ 308$	$c^2d^2e^2f$	$+\ 306$
d^2f^4	...	$c^2d^2f^3$	$-\ 105$	cd^2e^4	$+\ 735$	c^2de^4	$-\ 765$
de^2f^3	...	$c^2de^2f^2$	$+\ 18$	d^5ef	$+\ 208$	cd^4ef	$+\ 28$
e^4f^2	...	c^2e^4f	$-\ 6$	d^4e^3	$-\ 283$	cd^3e^3	$+\ 280$
$b^0c^2df^4$	$-\ 1$	cd^3ef^2	$+\ 114$	$b^2c^5f^3$	$+\ 27$	d^7f	$-\ 88$
$c^2e^2f^3$	$+\ 1$	cd^2e^3f	$-\ 57$	c^4def^2	$-\ 396$	d^6e^2	$+\ 40$
cd^2ef^3	$+\ 7$	cde^5	$+\ 12$	c^4e^3f	$-\ 337$	$b^3c^5ef^2$	$-\ 63$
cde^3f^2	$-\ 12$	d^5f^2	$-\ 6$	$c^3d^3f^2$	$+\ 222$	$c^4d^2f^2$	$+\ 42$
ce^5f	$+\ 5$	d^4e^2f	$+\ 3$	$c^3d^2e^2f$	$+\ 783$	c^4de^2f	$-\ 798$
d^4f^3	$-\ 6$	d^3e^4	$-\ 12$	c^3de^4	$+\ 880$	c^4e^4	$+\ 175$
$d^3e^2f^2$	$+\ 12$	$b^1c^4df^3$	$+\ 90$	c^2d^4ef	$+\ 93$	c^3d^3ef	$-\ 224$
d^2e^4f	$-\ 7$	$c^4e^2f^2$	$-\ 198$	$c^2d^3e^3$	$-\ 1986$	$c^3d^2e^3$	$+\ 1365$
de^6	$+\ 1$	$c^3d^2ef^2$	$-\ 9$	cd^6f	$-\ 240$	c^2d^5f	$+\ 368$
$a^3\ b^3ef^4$	...	c^3de^3f	$+\ 238$	cd^5e^2	$+\ 1098$	$c^2d^4e^2$	$-\ 1025$
b^2cdf^4	$+\ 2$	c^3e^5	$+\ 116$	d^7e	$-\ 144$	cd^6e	$+\ 60$
ce^2f^3	$-\ 2$	$c^2d^4f^2$	$-\ 6$	$b^1c^6cf^2$	$+\ 81$	d^8	$+\ 30$
d^2ef^3	$-\ 7$	$c^2d^3e^2f$	$+\ 108$	$c^5d^2f^2$	$-\ 54$	$b^2c^6df^2$	...
de^3f^2	$+\ 12$	$c^2d^2e^4$	$-\ 513$	c^5de^2f	$+\ 570$	c^6e^2f	$+\ 252$
e^5f	$-\ 5$	cd^5ef	$-\ 294$	c^5e^4	$-\ 148$	c^5d^2ef	$+\ 798$
$b^1c^3f^4$	$+\ 3$	cd^4e^3	$+\ 513$	c^4d^3ef	$-\ 1116$	c^5de^3	$-\ 700$
c^2def^3	$-\ 30$	d^7f	$+\ 108$	$c^4d^2e^3$	$-\ 527$	c^4d^4f	$-\ 578$
$c^2e^3f^2$	$+\ 21$	d^6e^2	$-\ 153$	c^3d^5f	$+\ 474$	$c^4d^3e^2$	$-\ 370$
cd^3f^3	$+\ 44$	$b^0c^6f^3$	$-\ 27$	$c^3d^4e^2$	$+\ 1662$	c^3d^5e	$+\ 880$
$cd^2e^2f^2$	$-\ 69$	c^5def^2	$+\ 108$	c^2d^6e	$-\ 1185$	c^2d^7	$-\ 240$
cde^4f	$+\ 62$	c^5e^3f	$+\ 194$	cd^8	$+\ 243$	$b^1c^8f^2$	...
ce^6	$-\ 28$	$c^4d^3f^2$	$-\ 42$	$b^0c^7df^2$	...	c^7def	$-\ 486$
d^4ef^2	$-\ 6$	$c^4d^2e^2f$	$-\ 663$	c^7e^2f	$-\ 216$	c^7e^3	$+\ 60$
d^3e^3f	$-\ 8$	c^4de^4	$-\ 274$	c^6d^2ef	$+\ 369$	c^6d^3f	$+\ 312$
d^2e^5	$+\ 11$	c^3d^4ef	$+\ 570$	c^6de^3	$+\ 340$	$c^6d^2e^2$	$+\ 645$
$b^0c^4ef^3$	$-\ 6$	$c^3d^3e^3$	$+\ 914$	c^5d^4f	$-\ 149$	c^5d^4e	$-\ 735$
$c^3d^2f^3$	$-\ 11$	c^2d^6f	$-\ 153$	$c^5d^3e^2$	$-\ 730$	c^4d^6	$+\ 190$
$c^3de^2f^2$	$+\ 96$	$c^2d^5e^2$	$-\ 1032$	c^4d^5e	$+\ 488$	b^0c^9ef	$+\ 81$
c^3e^4f	$-\ 64$	cd^7e	$+\ 486$	c^3d^7	$-\ 102$	c^8d^2f	$-\ 54$
$c^2d^3ef^2$	$-\ 66$	d^9	$-\ 81$	$a^0\ b^7f^4$	$-\ 2$	c^8de^2	$-\ 135$
$c^2d^2e^3f$	$-\ 29$	$a^1\ b^5cef^4$	$+\ 7$	b^6cef^3	$+\ 20$	c^7d^3e	$+\ 150$
c^2de^5	$+\ 68$	def^3	$-\ 16$	d^2f^3	$-\ 24$	c^6d^5	$-\ 40$
cd^5f^2	$+\ 18$	e^3f^2	$+\ 9$	de^2f^2	$+\ 72$		
cd^4e^2f	$+\ 75$	$b^4c^2ef^3$	$-\ 53$	e^4f	$+\ 54$		
cd^3e^4	$-\ 78$	cd^2f^3	$+\ 104$	$b^5c^2df^3$	$+\ 16$	$\pm\quad 26$	
d^6ef	$-\ 27$	cde^2f^2	$-\ 150$	$c^2e^2f^2$	$-\ 129$	436	
d^5e^3	$+\ 24$	ce^4f	$+\ 117$	cd^2ef^2	$-\ 108$	3738	
$a^2\ b^4df^4$	$-\ 1$	d^3ef^2	$-\ 48$	cde^3f	$+\ 72$	9116	
e^2f^3	$+\ 1$	d^2e^3f	$+\ 138$	ce^5	$+\ 135$	6880	
$b^3c^2f^4$	$-\ 8$	de^5	$-\ 108$	d^4f^2	$+\ 84$		
$cdef^3$	$+\ 46$	$b^3c^3df^3$	$-\ 82$	d^3e^2f	$-\ 112$	$\pm\,20196$	
ce^3f^2	$-\ 30$	$c^3e^2f^2$	$+\ 315$	d^2e^4	...	and see further p. 306.	

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y coefficient.		y coefficient.					
a^5 $b^0 df^5$	...	a^2 $b^2 cd^2 e^2 f^2$	− 18	a^1 $b^2 c^4 df^3$	− 75	a^0 $b^4 cd^3 e^2 f$	− 880
$e^2 f^4$	...	$cde^4 f$	+ 150	$c^4 e^2 f^2$	− 3	$cd^2 e^4$	+ 765
a^4 $b^1 cf^5$	...	ce^6	− 72	$c^3 d^2 ef^2$	− 108	$d^5 ef$	+ 148
def^4	...	$d^4 ef^2$	+ 198	$c^3 de^3 f$	+ 308	$d^4 e^3$	− 175
$e^3 f^3$	...	$d^3 e^3 f$	− 315	$c^3 e^5$	+ 112	$b^3 c^5 f^3$	− 24
$b^0 c^2 ef^4$	...	$d^2 e^5$	+ 129	$c^2 d^4 f^2$	+ 663	$c^4 def^2$	− 513
$cd^2 f^4$	+ 1	$b^1 c^4 ef^3$	+ 6	$c^2 d^3 e^2 f$	− 783	$c^4 e^3 f$	+ 283
$cde^2 f^3$	− 2	$c^3 d^2 f^3$	+ 66	$c^2 d^2 e^4$	− 306	$c^3 d^3 f^2$	− 914
$ce^4 f^2$	+ 1	$c^3 de^2 f^2$	− 114	$cd^5 ef$	− 570	$c^3 d^2 e^2 f$	+ 1986
$d^3 ef^3$	− 3	$c^3 e^4 f$	+ 48	$cd^4 e^3$	+ 798	$c^3 de^4$	− 280
$d^2 e^3 f^2$	+ 8	$c^2 d^3 ef^2$	+ 9	$d^7 f$	+ 216	$c^2 d^4 ef$	+ 527
$de^5 f$	− 7	$c^2 d^2 e^3 f$	− 153	$d^6 e^2$	− 252	$c^2 d^3 e^3$	− 1365
e^7	+ 2	$c^2 de^5$	+ 108	$b^1 c^6 f^3$	+ 27	$cd^6 f$	− 340
a^3 $b^3 f^5$	...	$cd^5 f^2$	− 108	$c^5 def^2$	+ 294	$cd^5 e^2$	+ 700
$b^2 cef^4$	...	$cd^4 e^2 f$	+ 396	$c^5 e^3 f$	− 208	$d^7 e$	− 60
$d^2 f^4$	− 1	$cd^3 e^4$	− 240	$c^4 d^2 e^2 f$	− 93	$b^2 c^6 ef^2$	+ 153
$de^2 f^3$	+ 2	$d^6 ef$	− 81	$c^4 d^3 f^2$	− 570	$c^5 d^2 f^2$	+ 1032
$e^4 f^2$	− 1	$d^5 e^3$	+ 63	$c^4 de^4$	− 28	$c^5 de^2 f$	− 1098
$b^1 c^2 df^4$	− 7	$b^0 c^5 df^3$	− 18	$c^3 d^4 ef$	+ 1116	$c^5 e^4$	− 40
$c^2 e^2 f^3$	+ 7	$c^5 e^2 f^2$	+ 6	$c^3 d^3 e^3$	+ 224	$c^4 d^3 ef$	− 1662
$cd^2 ef^3$	+ 30	$c^4 d^2 ef^2$	+ 6	$c^2 d^6 f$	− 369	$c^4 d^2 e^3$	+ 1025
$cde^3 f^2$	− 46	$c^4 de^3 f$	+ 114	$c^2 d^5 e^2$	− 798	$c^3 d^5 f$	+ 730
$ce^5 f$	+ 16	$c^4 e^5$	− 84	$cd^7 e$	+ 486	$c^3 d^4 e^2$	+ 370
$d^4 f^3$	+ 6	$c^3 d^4 f^2$	+ 42	d^9	− 81	$c^2 d^6 e$	− 645
$d^3 e^2 f^2$	− 39	$c^3 d^3 e^2 f$	− 222	$b^0 c^7 ef^2$	− 108	cd^8	+ 135
$d^2 e^4 f$	+ 53	$c^3 d^2 e^4$	+ 144	$c^6 d^2 f^2$	+ 153	$b^1 c^7 df^2$	− 486
de^6	− 20	$c^2 d^5 ef$	+ 54	$c^6 de^2 f$	+ 240	$c^7 e^2 f$	+ 144
$b^0 c^4 f^4$	+ 6	$c^2 d^4 e^3$	− 42	$c^6 e^4$	+ 88	$c^6 d^2 ef$	+ 1185
$c^3 def^3$	− 44	$cd^7 f$	...	$c^5 d^3 ef$	− 474	$c^6 de^3$	− 60
$c^3 e^3 f^2$	+ 20	$cd^6 e^2$	...	$c^5 d^2 e^3$	− 368	$c^5 d^4 f$	− 488
$c^2 d^3 f^3$	+ 11	$d^8 e$	...	$c^4 d^5 f$	+ 149	$c^5 d^3 e^2$	− 880
$c^2 d^2 e^2 f^2$	+ 105	a^1 $b^5 df^4$	− 5	$c^4 d^4 e^2$	+ 578	$c^4 d^5 e$	+ 735
$c^2 de^4 f$	− 104	$e^2 f^3$	+ 5	$c^3 d^6 e$	− 312	$c^3 d^7$	− 150
$c^2 e^6$	+ 24	$b^4 c^2 f^4$	+ 7	$c^2 d^8$	+ 54	$b^0 c^9 f^2$	+ 81
$cd^4 ef^2$	− 90	$cdef^3$	− 62	a^0 $b^6 cf^4$	− 1	$c^8 def$	− 243
$cd^3 e^3 f$	+ 82	$ce^3 f^2$	+ 48	def^3	+ 28	$c^8 e^3$	− 30
$cd^2 e^5$	− 16	$d^3 f^3$	+ 64	$e^3 f^2$	− 27	$c^7 d^3 f$	+ 102
$d^6 f^2$	+ 27	$d^2 e^2 f^2$	+ 6	$b^5 c^2 ef^3$	− 11	$c^7 d^2 e^2$	+ 240
$d^5 e^2 f$	− 27	$de^4 f$	− 117	$cd^2 f^3$	− 68	$c^6 d^4 e$	− 190
$d^4 e^4$	+ 6	e^6	+ 54	$cde^2 f^2$	− 12	$c^5 d^6$	+ 40
a^2 $b^4 ef^4$	...	$b^3 c^3 ef^3$	+ 8	$ce^4 f$	+ 108		
$b^3 cdf^4$	+ 12	$c^2 d^2 f^3$	+ 29	$d^3 ef^2$	− 116		
$ce^2 f^3$	− 12	$c^2 de^2 f^2$	+ 57	$d^2 e^3 f$	+ 234		
$d^2 ef^3$	− 21	$c^2 e^4 f$	− 138	de^5	− 135		
$de^3 f^2$	+ 30	$cd^3 ef^2$	− 238	$b^4 c^3 df^3$	+ 78		
$e^5 f$	− 9	$cd^2 e^3 f$	+ 390	$c^3 e^2 f^2$	+ 12		
$b^2 c^3 f^4$	− 12	cde^5	− 72	$c^2 d^2 ef^2$	+ 513		
$c^2 def^3$	+ 69	$d^5 f^2$	− 194	$c^2 de^3 f$	− 735		
$c^2 e^3 f^2$	− 33	$d^4 e^2 f$	+ 337	$c^2 e^5$	...		
$cd^3 f^3$	− 96	$d^3 e^4$	− 179	$cd^4 f^2$	+ 274		

$(x, y)^1$

$$\pm \begin{matrix} 12 \\ 395 \\ 1650 \\ 6511 \\ 11628 \end{matrix}$$

± 20196

U.   No. 29.

$a^6\ b^0f^6$ ...	$a^3\ b^1d^3e^5$ − 22	$a^2\ b^1c^2d^5f^2$ − 108	$a^1\ b^2c^5e^2f^2$ − 90	$a^0\ b^5d^5f^2$ − 24
$a^5\ b^1ef^5$ ...	$b^0c^5f^4$ − 4	$c^2d^4e^2f$ − 42	$c^4d^2ef^2$ − 42	d^4e^2f − 4
b^0cdf^5 ...	c^4def^3 + 36	$c^2d^3e^4$ + 298	c^4de^3f + 674	d^3e^4 + 32
ce^2f^4 ...	$c^4e^3f^2$ − 16	cd^5ef + 242	c^4e^5 − 4	$b^4c^4df^3$ + 56
d^2ef^4 ...	$c^3d^3f^3$ − 22	cd^4e^3 − 294	$c^3d^4f^2$ + 394	$c^4e^2f^2$ + 39
de^3f^3 ...	$c^3d^2e^2f^2$ − 50	d^8f − 72	$c^3d^2e^4$ − 652	$c^3d^2e^2f^2$ + 298
e^5f^2 ...	c^3de^4f + 16	d^7e^2 + 78	$c^3d^3e^2f$ − 714	c^3de^3f − 590
$a^4\ b^3f^5$ ...	c^3e^6 + 16	$b^0c^6df^3$ − 6	c^2d^5ef − 498	c^3e^5 + 32
b^2df^5 ...	$c^2d^4ef^2$ + 54	$c^6e^2f^2$ + 62	$c^2d^4e^3$ + 1246	$c^2d^4f^2$ + 194
e^2f^4 ...	$c^2d^3e^3f$ + 46	$c^5d^2ef^2$ − 108	cd^7f + 224	$c^2d^3e^2f$ − 652
$b^1c^2f^5$ ...	$c^2d^2e^5$ − 60	c^5de^3f − 164	cd^6e^2 − 516	$c^2d^2e^4$ + 713
$cdef^4$ ...	cd^6f^2 − 6	c^5e^5 − 24	d^8e + 48	cd^5ef + 136
d^3f^4 ...	cd^5e^2f − 70	$c^4d^4f^2$ + 63	$b^1c^7f^3$ + 18	cd^4e^3 − 246
$d^2e^2f^3$ ...	cd^4e^4 + 56	$c^4d^3e^2f$ + 394	c^6def^2 + 242	d^7f + 16
de^4f^2 ...	d^7ef + 18	$c^4d^2e^4$ + 194	c^6e^3f − 128	d^6e^2 − 4
e^6f ...	d^6e^3 − 14	c^3d^5ef − 324	$c^5d^3f^2$ − 324	$b^3c^6f^3$ − 14
$b^0c^3ef^4$ ...	$a^2\ b^5f^5$ ...	$c^3d^4e^3$ − 440	$c^5d^2e^2f$ − 498	c^5def^2 − 294
$c^2d^2f^4$ − 1	b^4cef^4 ...	c^2d^7f + 78	c^5de^4 + 136	c^5e^3f + 138
$c^2de^2f^3$ + 2	d^2f^4 − 1	$c^2d^6e^2$ + 428	c^4d^4ef + 1078	$c^4d^3f^2$ − 440
$c^2e^4f^2$ − 1	de^2f^3 + 2	cd^8e − 180	$c^4d^3e^3$ + 206	$c^4d^2e^2f$ + 1246
cd^3ef^3 + 6	e^4f^2 − 1	d^{10} + 27	c^3d^6f − 342	c^4de^4 − 246
$cd^2e^3f^2$ − 16	$b^3c^2df^4$ − 16	$a^1\ b^6ef^4$ ...	$c^3d^5e^2$ − 804	c^3d^4ef + 206
cde^5f + 14	$c^2e^2f^3$ + 16	b^5cdf^4 + 14	c^2d^7e + 506	$c^3d^3e^3$ − 868
ce^7 − 4	cd^2ef^3 + 82	ce^2f^3 − 14	cd^9 − 90	c^2d^6f − 222
d^5f^3 − 4	cde^3f^2 − 132	d^2ef^3 − 32	$b^0c^8ef^2$ − 72	$c^2d^5e^2$ + 550
$d^4e^2f^2$ + 11	ce^5f + 50	de^3f^2 + 50	$c^7d^2f^2$ + 78	cd^7e + 56
d^3e^4f − 10	d^4f^3 − 16	e^5f − 18	c^7de^2f + 224	d^9 − 4
d^2e^6 + 3	$d^3e^2f^2$ − 14	$b^4c^3f^4$ − 10	c^7e^4 + 16	$b^2c^7ef^2$ + 78
$a^3\ b^3cf^5$ ...	d^2e^4f + 60	c^2def^3 − 30	c^6d^3ef − 342	$c^6d^2f^2$ + 428
def^4 ...	de^6 − 30	$c^2e^3f^2$ + 60	$c^6d^2e^3$ − 220	c^6de^2f − 516
e^3f^3 ...	$b^2c^4f^4$ + 11	$cd^2e^2f^2$ − 48	c^5d^5f + 106	c^6e^4 + 4
$b^2c^2ef^4$ ...	c^3def^3 − 30	cd^3f^3 + 16	$c^5d^4e^2$ + 392	c^5d^3ef − 804
cd^2f^4 + 2	$c^3e^3f^2$ − 14	cde^4f + 38	c^4d^6e − 222	$c^5d^2e^3$ + 550
cde^2f^3 − 4	$c^2d^3f^3$ − 50	ce^6 − 36	c^3d^8 + 40	c^4d^5f + 392
ce^4f^2 + 2	$c^2d^2e^2f^2$ + 168	d^4ef^2 + 112	$a^0\ b^7df^4$ − 4	$c^4d^4e^2$ + 143
d^3ef^3 − 6	c^2de^4f − 48	d^3e^3f − 204	e^2f^3 + 4	c^3d^6e − 354
$d^2e^3f^2$ + 16	c^2e^6 − 4	d^2e^5 + 102	$b^6c^2f^4$ + 3	c^2d^8 + 83
de^5f − 14	cd^4ef^2 − 48	$b^3c^4ef^3$ + 50	$cdef^3$ + 24	$b^1c^8df^2$ − 180
e^7 + 4	cd^3e^3f − 2	$c^3d^2f^3$ + 46	ce^2f^2 − 30	c^8e^2f + 48
$b^1c^3df^4$ + 6	cd^2e^5 + 6	$c^3de^2f^2$ − 2	d^3f^3 + 16	c^7d^2ef + 506
$c^3e^2f^3$ − 6	d^6f^2 + 62	c^3e^4f − 204	$d^2e^2f^2$ − 4	c^7de^3 − 56
$c^2d^2ef^3$ − 50	d^5e^2f − 90	$c^2d^3ef^2$ − 170	de^4f − 36	c^6d^4f − 222
$c^2de^3f^2$ + 82	d^4e^4 + 39	c^2d^5e − 308	e^6 + 27	$c^6d^3e^2$ − 354
c^2e^5f − 32	$b^1c^5ef^3$ − 28	$c^2d^2e^3f$ + 42	$b^5c^3ef^2$ − 104	c^5d^5e + 330
cd^4f^3 + 36	$c^4d^2f^3$ + 54	cd^5f^2 − 164	c^2ef^3 + 22	c^4d^7 − 72
$cd^3e^2f^2$ − 30	$c^4de^2f^2$ − 48	cd^4e^2f + 674	$c^2d^2f^3$ − 60	$b^0c^{10}f^2$ + 27
cd^2e^4f − 30	c^4e^4f + 112	cd^3e^4 − 590	$c^2de^2f^2$ + 6	c^9def − 90
cde^6 + 24	$c^3d^3ef^2$ + 82	d^6ef − 128	c^2e^4f + 102	c^9e^3 − 4
d^5ef^2 − 28	$c^3d^2e^3f$ − 170	d^5e^3 + 138	cd^2e^3f + 308	c^8d^3f + 40
d^4e^3f + 50	c^3de^5 − 104	$b^2c^5df^3$ − 70	cde^5 − 234	$c^8d^2e^2$ + 83
				c^7d^4e − 72
				c^6d^6 + 16

±36, ±464, ±2608, ±7278, ±6878, together ±17264: and see further p. 307.

V. No. 95. $(*\text{℺}x,\ y)^2.$

x coefficient.

Term		Term		Term		Term	
$a^6\ b^0cf^6$	...	$a^3\ b^4df^5$	$-\ 2$	$a^3\ b^0cd^6e^3$	$+\ 876$	$a^2\ b^1c^3d^3e^4$	$+\ 2800$
def^5	...	e^2f^4	$+\ 2$	d^7f	$+\ 162$	c^2d^6ef	$+\ 6624$
e^3f^4	...	$b^3c^2f^5$	$-\ 16$	d^8e^2	$-\ 162$	$c^2d^5e^3$	$+\ 2052$
$a^5\ b^2f^6$	...	$cdef^4$	$+\ 32$	$a^2\ b^5cf^5$	$+\ 14$	cd^8f	$-\ 918$
b^1cef^5	...	ce^3f^3	...	def^4	$-\ 6$	cd^7e^2	$-\ 2304$
d^2f^5	...	d^3f^4	$-\ 8$	e^3f^3	$-\ 8$	d^9e	$+\ 486$
de^2f^4	...	$d^2e^2f^3$	$+\ 80$	$b^4c^2ef^4$	$-\ 50$	c^7df^2	...
e^4f^3	...	de^4f^2	$-\ 160$	cd^2f^4	$+\ 90$	$b^0c^7e^2f^2$	$+\ 504$
$b^0c^2df^5$	$-\ 2$	e^6f	$+\ 72$	cde^2f^3	$-\ 120$	$c^6d^2ef^2$	$-\ 576$
$c^2e^2f^4$	$+\ 2$	$b^2c^3ef^4$	$+\ 84$	ce^4f^2	$+\ 60$	c^6de^3f	$-\ 2288$
cd^2ef^4	$+\ 10$	$c^2d^2f^4$	$-\ 104$	d^3ef^3	$-\ 280$	c^6e^5	$+\ 1172$
cde^3f^3	$-\ 16$	$c^2de^2f^3$	$-\ 160$	$d^2e^3f^2$	$+\ 300$	$c^5d^4f^2$	$-\ 124$
ce^5f^2	$+\ 6$	$c^2e^4f^2$	$+\ 60$	de^5f	$+\ 216$	$c^5d^3e^2f$	$+\ 4336$
d^4f^4	$-\ 6$	cd^3ef^3	$+\ 320$	e^7	$+\ 216$	$c^5d^2e^4$	$-\ 2540$
$d^3e^2f^3$	$+\ 12$	$cd^2e^3f^2$	$+\ 80$	$b^3c^3df^4$	$-\ 160$	c^4d^5ef	$-\ 1912$
$d^2e^4f^2$	$-\ 10$	cde^5f	$-\ 496$	$c^3e^2f^3$	$-\ 80$	$c^4d^4e^3$	$+\ 2100$
de^6f	$+\ 6$	ce^7	$+\ 252$	$c^2d^2ef^3$	$+\ 1280$	c^3d^7f	$+\ 240$
e^8	$-\ 2$	d^5f^3	$-\ 72$	$c^2de^3f^2$	...	$c^3d^6e^2$	$-\ 1560$
$a^4\ b^3ef^5$	...	$d^4e^2f^2$	$-\ 420$	c^2e^5f	$-\ 312$	c^2d^8e	$+\ 810$
b^2cdf^5	$+\ 4$	d^3e^4f	$+\ 860$	cd^4f^3	$-\ 440$	cd^{10}	$-\ 162$
ce^2f^4	$-\ 4$	d^2e^6	$-\ 404$	$cd^3e^2f^2$	$-\ 2160$	$a^1\ b^7f^5$	$-\ 4$
d^2ef^4	$-\ 10$	$b^1c^4df^4$	$+\ 96$	cd^2e^4f	$+\ 1740$	b^6cef^4	$-\ 22$
de^3f^3	$+\ 16$	$c^4e^2f^3$	$-\ 120$	cde^6	$-\ 216$	d^2f^4	$-\ 26$
e^5f^2	$-\ 6$	$c^3d^2ef^3$	$-\ 560$	d^5ef^2	$+\ 2344$	de^2f^3	$+\ 76$
$b^1c^3f^5$	$+\ 6$	$c^3de^3f^2$	$+\ 160$	d^4e^3f	3240	e^4f^2	...
c^2def^4	$-\ 26$	c^3e^5f	$+\ 304$	d^3e^5	$+\ 1244$	$b^5c^2df^4$	$+\ 124$
$c^2e^3f^3$	$+\ 8$	$c^2d^4f^3$	$+\ 280$	$b^2c^5f^4$	$+\ 72$	$c^2e^3f^3$	$+\ 368$
cd^3f^4	$+\ 32$	$c^2d^3e^2f^2$	$+\ 1440$	c^4def^3	$-\ 240$	cd^2ef^3	$-\ 688$
$cd^2e^2f^3$	$-\ 116$	$c^2d^2e^4f$	$-\ 960$	$c^4e^3f^2$	$+\ 940$	cde^3f^2	$-\ 192$
cde^4f^2	$+\ 180$	c^2de^6	$-\ 376$	$c^3d^3f^3$	...	ce^5f	...
ce^6f	$-\ 78$	cd^5ef^2	$-\ 1296$	$c^3d^2e^2f^2$	$-\ 1320$	d^4f^3	$+\ 400$
d^4ef^3	$+\ 24$	cd^4e^3f	$+\ 80$	c^3de^4f	$-\ 2640$	$d^3e^2f^2$	$+\ 984$
$d^3e^3f^2$	$-\ 20$	cd^3e^5	$+\ 832$	c^3e^6	$+\ 908$	d^2e^4f	$-\ 2160$
d^2e^5f	$-\ 44$	d^7f^2	$+\ 432$	$c^2d^4ef^2$	$+\ 600$	de^6	$+\ 1080$
de^7	$+\ 34$	d^6e^2f	$-\ 72$	$c^2d^3e^3f$	$+\ 3360$	$b^4c^4f^4$	$-\ 60$
$b^0c^4ef^4$	$-\ 30$	d^5e^4	$-\ 240$	$c^2d^2e^5$	$-\ 168$	c^3def^3	$-\ 480$
$c^3d^2f^4$	$+\ 4$	$b^0c^6f^4$	$-\ 36$	cd^6f^2	$-\ 1656$	$c^3e^3f^2$	$-\ 1580$
$c^3de^2f^3$	$+\ 240$	c^5def^3	$+\ 288$	cd^5e^2f	$+\ 3408$	$c^2d^3f^3$	$+\ 40$
$c^3e^4f^2$	$-\ 130$	$c^5e^3f^2$	$+\ 56$	cd^4e^4	$-\ 3480$	$c^2d^2e^2f^2$	$+\ 2040$
$c^2d^3ef^3$	$-\ 160$	$c^4d^3f^3$	$-\ 140$	d^7ef	$-\ 1008$	c^2de^4f	$+\ 2910$
$c^2d^2e^3f^2$	$-\ 280$	$c^4d^2e^2f^2$	$-\ 480$	d^6e^3	$+\ 1224$	c^2e^6	$-\ 810$
c^2de^5f	$+\ 332$	c^4de^4f	$+\ 420$	$b^1c^6ef^3$	$-\ 144$	cd^4ef^3	$-\ 3420$
c^2e^7	$-\ 54$	c^4e^6	$-\ 276$	$c^5d^2f^3$	$+\ 108$	cd^3e^3f	$+\ 4800$
cd^5f^3	$+\ 24$	$c^3d^4ef^2$	$+\ 420$	$c^5de^2f^2$	$-\ 768$	cd^2e^5	$-\ 3510$
$cd^4e^2f^2$	$+\ 360$	$c^3d^3e^3f$	$-\ 1120$	c^5e^4f	$-\ 700$	d^6f^2	$-\ 1516$
cd^3e^4f	$-\ 320$	$c^3d^2e^5$	$+\ 1112$	$c^4d^3ef^2$	$+\ 900$	d^5e^2f	$+\ 2156$
cd^2e^6	$+\ 38$	$c^2d^6f^2$	$-\ 144$	$c^4d^2e^3f$	$+\ 8160$	d^4e^4	$-\ 430$
d^6ef^2	$-\ 108$	$c^2d^5e^2f$	$+\ 1620$	c^4de^5	$-\ 2148$	$b^3c^5ef^3$	$+\ 336$
d^5e^3f	$+\ 96$	$c^2d^4e^4$	$-\ 1620$	$c^3d^5f^2$	$+\ 912$	$c^4d^2f^3$	$-\ 40$
d^4e^5	$-\ 12$	cd^7ef	$-\ 864$	$c^3d^4e^2f$	$-\ 15060$	$c^4de^2f^2$	$+\ 2640$

For the Numerical Verifications see p. 308.

V. No. 95 (continued).

x coefficient.

a^1	$b^3c^4e^4f$	$+$ 1840	a^0	$b^7d^2ef^3$	$+$ 184	a^0	$b^2c^8ef^2$	$-$ 594
	$c^3d^3ef^2$	$-$ 1280		de^3f^2	$-$ 108		$c^7d^2f^2$	$-$ 10296
	$c^3d^2e^3f$	$-$ 13360		e^5f	...		c^7de^2f	$+$ 10080
	c^3de^5	$+$ 3200		$b^6c^3f^4$	$+$ 18		c^7e^4	$+$ 900
	$c^2d^5f^2$	$+$ 7312		c^2def^3	$+$ 264		c^6d^3ef	$+$ 19440
	$c^2d^4e^2f$	$-$ 2360		$c^2e^3f^2$	$+$ 756		$c^6d^2e^3$	$-$ 8800
	$c^2d^3e^4$	$+$ 3840		cd^3f^3	$-$ 368		c^5d^5f	$-$ 9160
	cd^6ef	$-$ 5344		$cd^2e^2f^2$	$-$ 732		$c^5d^4e^2$	$-$ 11900
	cd^5e^3	$+$ 2800		cde^4f	$+$ 540		c^4d^6e	$+$ 13900
	d^8f	$+$ 1956		ce^6	...		c^3d^8	$-$ 3150
	d^7e^2	$-$ 1680		d^4ef^2	$-$ 1172		$b^1c^9df^2$	$+$ 3564
	$b^2c^9df^3$	$+$ 36		d^3e^3f	$+$ 2520		c^9e^2f	$-$ 1350
	$c^6e^2f^2$	$-$ 1296		d^2e^5	$-$ 1350		c^8d^2ef	$-$ 9540
	$c^5d^2ef^2$	$+$ 1668		$b^5c^4ef^3$	$-$ 144		c^8de^3	$-$ 750
	c^5de^3f	$-$ 1312		$c^3d^2f^3$	$+$ 376		c^7d^4f	$+$ 4260
	c^5e^5	$-$ 2060		$c^3de^2f^2$	$-$ 1440		$c^7d^3e^2$	$+$ 10800
	$c^4d^4f^2$	$-$ 8020		c^3e^4f	$-$ 1530		c^6d^5e	$-$ 9100
	$c^4d^3e^2f$	$+$ 15220		$c^2d^3ef^2$	$+$ 6360		c^5d^7	$+$ 2000
	$c^4d^2e^4$	$+$ 1180		$c^2d^2e^3f$	$-$ 6000		$b^0c^{11}f^2$	$-$ 486
	c^3d^5ef	$+$ 3712		c^2de^5	$+$ 1350		$c^{10}def$	$+$ 1620
	$c^3d^4e^3$	$-$ 8540		cd^5f^2	$+$ 2344		$c^{10}e^3$	$+$ 450
	c^2d^7f	$-$ 2952		cd^4e^2f	$-$ 9260		c^9d^3f	$-$ 720
	$c^2d^6e^2$	...		cd^3e^4	$+$ 7200		$c^9d^2e^2$	$-$ 2250
	cd^8e	$+$ 3330		d^6ef	$+$ 1720		c^8d^4e	$+$ 1800
	d^{10}	$-$ 810		d^5e^3	$-$ 1900		c^7d^6	$-$ 400
	$b^1c^8f^3$	...		$b^4c^5df^3$	$-$ 168			
	c^7def^2	$-$ 576		$c^5e^2f^2$	$+$ 648			
	c^7e^3f	$+$ 1824		$c^4d^2ef^2$	$-$ 6420			
	$c^6d^3f^2$	$+$ 3792		c^4de^3f	$+$ 9360			
	$c^6d^2e^2f$	$-$ 5808		c^4e^5	$+$ 450			
	c^6de^4	$+$ 3240		$c^3d^4f^2$	$-$ 10100			
	c^5d^4ef	$-$ 4768		$c^3d^3e^2f$	$+$ 19920			
	$c^5d^3e^3$	$-$ 6240		$c^3d^2e^4$	$-$ 10300			
	c^4d^6f	$+$ 2608		c^2d^5ef	$+$ 4920			
	$c^4d^5e^2$	$+$ 12440		$c^2d^4e^3$	$-$ 10100			
	c^3d^7e	$-$ 8160		cd^7f	$-$ 3440			
	c^2d^9	$+$ 1620		cd^6e^2	$+$ 7100			
	$b^0c^9ef^2$	$+$ 162		d^8e	$-$ 750			
	$c^8d^2f^2$	$-$ 702		$b^3c^7f^3$	$+$ 36			
	c^8de^2f	$-$ 90		c^6def^2	$+$ 2988			
	c^8e^4	$-$ 1290		c^6e^3f	$-$ 2880			
	c^7d^3ef	$+$ 1920		$c^5d^3f^2$	$+$ 14688			
	$c^7d^2e^3$	$+$ 3640		$c^5d^2e^2f$	$-$ 22740			
	c^6d^5f	$-$ 796		c^5de^4	$+$ 600			
	$c^6d^4e^2$	$-$ 5340		c^4d^4ef	$-$ 16520			
	c^5d^6e	$+$ 3100		$c^4d^3e^3$	$+$ 23300			
	c^4d^8	$-$ 600		c^3d^6f	$+$ 8760			
a^0	b^8ef^4	$+$ 18		$c^3d^5e^2$	$-$ 5200			
	b^7cdf^4	$+$ 36		c^2d^7e	$-$ 5400			
	ce^2f^3	$-$ 180		cd^9	$+$ 1500			

V. No. 95 (continued).

y coefficient.

Term	±	Val	Term	±	Val	Term	±	Val	Term	±	Val
$a^6\ b^0 df^6$		...	$a^3\ b^2 c^2 def^4$	−	116	$a^2\ b^4 e^6 f$		...	$a^2\ b^0 c^5 d^2 e^3 f$	+	7312
$e^2 f^5$		...	$c^2 e^3 f^3$	+	80	$b^3 c^3 ef^4$	−	20	$c^5 de^5$	+	2344
$a^5\ b^1 cf^6$		...	$cd^3 f^4$	+	240	$c^2 d^2 f^4$	−	280	$c^4 d^5 f^2$	−	124
def^5		...	$cd^2 e^2 f^3$	−	160	$c^2 de^2 f^3$	+	80	$c^4 d^4 e^2 f$	−	8020
$e^3 f^4$		...	$cde^4 f^2$	−	120	$c^2 e^4 f^2$	+	300	$c^4 d^3 e^4$	−	10100
$b^0 c^2 ef^5$		...	$ce^6 f$	+	76	$cd^3 ef^3$	+	160	$c^3 d^6 ef$	+	3792
$cd^2 f^5$	−	2	$d^4 ef^3$	−	120	$cd^2 e^3 f^2$		...	$c^3 d^5 e^3$	+	14648
$cde^2 f^4$	+	4	$d^3 e^3 f^2$	−	80	$cde^5 f$	−	192	$c^2 d^8 f$	−	702
$ce^4 f^3$	−	2	$d^2 e^5 f$	+	368	ce^7	−	108	$c^2 d^7 e^2$	−	10296
$d^3 ef^4$	+	6	de^7	−	180	$d^5 f^3$	−	56	$c d^9 e$	+	3564
$d^2 e^3 f^3$	−	16	$b^1 c^4 ef^4$	+	24	$d^4 e^2 f^2$	+	940	d^{11}	−	486
$de^5 f^2$	+	14	$c^3 d^2 f^4$	−	160	$d^3 e^4 f$	−	1580	$a^1\ b^6 cf^5$	+	6
$e^7 f$	−	4	$c^3 de^2 f^3$	+	320	$d^2 e^6$	+	756	def^4	−	78
$a^4\ b^3 f^6$		...	$c^3 e^4 f^2$	−	280	$b^2 c^4 df^4$	+	360	$e^3 f^3$	+	72
$b^2 cef^5$		...	$c^2 d^3 ef^3$	−	560	$c^4 e^2 f^3$	−	420	$b^5 c^2 ef^4$	−	44
$d^2 f^5$	+	2	$c^2 d^2 e^3 f^2$	+	1280	$c^3 d^2 ef^3$	+	1440	$cd^2 f^4$	+	332
$de^2 f^4$	−	4	$c^2 de^5 f$	−	688	$c^3 de^3 f^2$	−	2160	$cde^2 f^3$	−	496
$e^4 f^3$	+	2	$c^2 e^7$	+	184	$c^3 e^5 f$	−	984	$ce^4 f^2$	+	216
$b^1 c^2 df^5$	+	10	$cd^5 f^3$	+	288	$c^2 d^4 f^3$	−	480	$d^3 ef^3$	+	304
$c^2 e^2 f^4$	−	10	$cd^4 e^2 f^2$	−	240	$c^2 d^3 e^2 f^2$	−	1320	$d^2 e^3 f^2$	−	312
$cd^2 ef^4$	−	26	$cd^3 e^4 f$	−	480	$c^2 d^2 e^4 f$	+	2040	$de^5 f$		...
$cde^3 f^3$	+	32	$cd^2 e^6$	+	264	$c^2 de^6$	−	732	e^7		...
$ce^5 f^2$	−	6	$d^6 ef^2$	−	144	$cd^5 ef^2$	−	768	$b^4 c^3 df^4$	−	320
$d^4 f^4$	−	30	$d^5 e^3 f$	+	336	$cd^4 e^3 f$	+	2640	$c^3 e^2 f^3$	+	860
$d^3 e^2 f^3$	+	84	$d^4 e^5$	−	144	$cd^3 e^5$	−	1440	$c^2 d^2 ef^3$	−	960
$d^2 e^4 f^2$	−	50	$b^0 c^5 df^4$	+	24	$d^7 f^2$	+	504	$c^2 de^3 f^2$	+	1740
$de^6 f$	−	22	$c^5 e^2 f^3$	−	72	$d^6 e^2 f$	−	1296	$c^2 e^5 f$	−	2160
e^8	+	18	$c^4 d^2 ef^3$	+	280	$d^5 e^4$	+	648	$cd^4 f^3$	+	420
$b^0 c^4 f^5$	−	6	$c^4 de^3 f^2$	−	440	$b^1 c^6 f^4$	−	108	$cd^3 e^2 f^2$	−	2640
$c^3 def^4$	+	32	$c^4 e^5 f$	+	400	$c^5 def^3$	−	1296	$cd^2 e^4 f$	+	2910
$c^3 e^3 f^3$	−	8	$c^3 d^4 f^3$	−	140	$c^5 e^3 f^2$	+	2344	cde^6	+	540
$c^2 d^3 f^4$	+	4	$c^3 d^3 e^2 f^2$		...	$c^4 d^3 f^3$	+	420	$d^5 ef^2$	−	700
$c^2 d^2 e^2 f^3$	−	104	$c^3 d^2 e^4 f$	+	40	$c^4 d^2 e^2 f^2$	+	600	$d^4 e^3 f$	+	1840
$c^2 de^4 f^2$	+	90	$c^3 de^6$	−	368	$c^4 de^4 f$	−	3420	$d^3 e^5$	−	1530
$c^2 e^6 f$	−	26	$c^2 d^5 ef^2$	+	108	$c^4 e^6$	−	1172	$b^3 c^5 f^4$	+	96
$cd^4 ef^3$	+	96	$c^2 d^4 e^3 f$	−	40	$c^3 d^4 ef^2$	+	900	$c^4 def^3$	+	80
$cd^3 e^3 f^2$	−	160	$c^2 d^3 e^5$	+	376	$c^3 d^3 e^3 f$	−	1280	$c^4 e^3 f^2$	−	3240
$cd^2 e^5 f$	+	124	$cd^7 f^2$		...	$c^3 d^2 e^5$	+	6360	$c^3 d^3 f^3$	−	1120
cde^7	−	36	$cd^6 e^2 f$		36	$c^2 d^6 f^2$	−	576	$c^3 d^2 e^2 f^2$	+	3360
$d^6 f^3$	−	36	$cd^5 e^4$	−	168	$c^2 d^5 e^2 f$	+	1668	$c^3 de^4 f$	+	4800
$d^5 e^2 f^2$	+	72	$d^8 ef$		...	$c^2 d^4 e^4$	−	6420	$c^3 e^6$	+	2520
$d^4 e^4 f$	−	60	$d^7 e^3$	+	36	$cd^7 ef$	−	576	$c^2 d^4 ef^2$	+	8160
$d^3 e^6$	+	18	$a^2\ b^5 df^5$	+	6	$cd^6 e^3$	+	2988	$c^2 d^3 e^3 f$	−	13360
$a^3\ b^4 ef^5$		...	$e^2 f^4$	+	6	$d^9 f$	+	162	$c^2 d^2 e^5$	−	6000
$b^3 cdf^5$	−	16	$b^4 c^2 f^5$	−	10	$d^8 e^2$	−	594	$cd^6 f^2$	−	2288
$ce^2 f^4$	+	16	$cdef^4$	+	180	$b^0 c^7 ef^3$	+	432	$cd^5 e^2 f$	−	1312
$d^2 ef^4$	+	8	$ce^3 f^3$	−	160	$c^6 d^2 f^3$	−	144	$cd^4 e^4$	+	9360
$de^3 f^3$		...	$d^3 f^4$	−	130	$c^6 de^2 f^2$	−	1656	$d^7 ef$	+	1824
$e^5 f^2$	−	8	$d^2 e^2 f^3$	+	60	$c^6 e^4 f$	−	1516	$d^6 e^3$	−	2880
$b^2 c^3 f^5$	+	12	$de^4 f^2$	+	60	$c^5 d^3 ef^2$	+	912	$b^2 c^6 ef^3$	−	72

For the Numerical Verifications see p. 308.

V. No. 95 (concluded).

y coefficient.

a^1 $b^2c^5d^2f^3$	+	1620	a^0 $b^6d^4f^3$	−	276	a^0 $b^2c^6de^4$	+	7100
$c^5de^2f^2$	+	3408	$d^3e^2f^2$	+	908	c^5d^4ef	+	12440
c^5e^4f	+	2156	d^2e^4f	−	810	$c^5d^3e^3$	−	5200
$c^4d^3ef^2$	−	15060	de^6		...	c^4d^6f	−	5340
$c^4d^2e^3f$	−	2360	$b^5c^4f^4$	−	12	$c^4d^5e^2$	−	11900
c^4de^5	−	9260	c^3def^3	+	832	c^3d^7e	+	10800
$c^3d^5f^2$	+	4336	$c^3e^3f^2$	+	1244	c^2d^9	−	2250
$c^3d^4e^2f$	+	15220	$c^2d^3f^3$	+	1112	$b^1c^9ef^2$	+	486
$c^3d^3e^4$	+	19920	$c^2d^2e^2f^2$	−	168	$c^8d^2f^2$	+	810
c^2d^6ef	−	5808	c^2de^4f	−	3510	c^8de^2f	+	3330
$c^2d^5e^3$	−	22740	c^2e^6	−	1350	c^8e^4	−	750
cd^8f	−	90	cd^4ef^2	−	2148	c^7d^3ef	−	8160
cd^7e^2	+	10080	cd^3e^3f	+	3200	$c^7d^2e^3$	−	5400
d^9e	−	1350	cd^2e^5	+	1350	c^6d^5f	+	3100
$b^1c^7df^3$	−	864	d^6f^2	+	1172	$c^6d^4e^2$	+	13900
$c^7e^2f^2$	−	1008	d^5e^2f	−	2060	c^5d^6e	−	9100
$c^6d^2ef^2$	+	6624	d^4e^4	+	450	c^4d^8	+	1800
c^6de^3f	−	5344	$b^4c^5ef^3$	−	240	$b^0c^{10}df^2$	−	162
c^6e^5	+	1720	$c^4d^2f^3$	−	1620	$c^{10}e^2f$	−	810
$c^5d^4f^2$	−	1912	$c^4de^2f^2$	−	3480	c^9d^2ef	+	1620
$c^5d^3e^2f$	+	3712	c^4e^4f	−	430	c^9de^3	+	1500
$c^5d^2e^4$	+	4920	$c^3d^3ef^2$	+	2800	c^8d^4f	−	600
c^4d^5ef	−	4768	$c^3d^2e^3f$	+	3840	$c^8d^3e^2$	−	3150
$c^4d^4e^3$	−	16520	c^3de^5	+	7200	c^7d^5e	+	2000
c^3d^7f	+	1920	$c^2d^5f^2$	−	2540	c^6d^7	−	400
$c^3d^6e^2$	+	19440	$c^2d^4e^2f$	+	1180			
c^2d^8e	−	9540	$c^2d^3e^4$	−	10300			
cd^{10}	+	1620	cd^6ef	+	3240			
$b^0c^9f^3$	+	162	cd^5e^3	+	600			
c^8def^2	−	918	d^8f	−	1290			
c^8e^3f	+	1956	d^7e^2	+	900			
$c^7d^3f^2$	+	240	$b^3c^6df^3$	+	876			
$c^7d^2e^2f$	−	2952	$c^6e^2f^2$	+	1224			
c^7de^4	−	3440	$c^5d^2ef^2$	+	2052			
c^6d^4ef	+	2608	c^5de^3f	+	2800			
$c^6d^3e^3$	+	8760	c^5e^5	−	1900			
c^5d^6f	−	796	$c^4d^4f^2$	+	2100			
$c^5d^5e^2$	−	9160	$c^4d^3e^2f$	−	8540			
c^4d^7e	+	4260	$c^4d^2e^4$	−	10100			
c^3d^9	−	720	c^3d^5ef	−	6240			
a^0 b^8f^5	−	2	$c^3d^4e^3$	+	23300			
$b^7c\,ef^4$	+	34	c^2d^7f	+	3640			
d^2f^4	−	54	$c^2d^6e^2$	−	8800			
de^2f^3	+	252	cd^8e	−	750			
e^4f^2	−	216	d^{10}	+	450			
$b^6c^2df^4$	+	38	$b^2c^8f^3$	−	162			
$c^2e^2f^3$	−	404	c^7def^2	−	2304			
cd^2ef^3	−	376	c^7e^3f	−	1680			
cde^3f^2	−	216	$c^6d^2f^2$	−	1560			
ce^5f	+	1080	$c^6d^2e^2f$		...			

W, 29 A.

a^9 $b^0 f^9$ ...	a^6 $b^1 c e^8 f^2$ − 15	a^5 $b^2 c^2 d e^4 f^4$ − 90	a^5 $b^0 c^3 d^2 e^7 f$ + 1320
a^8 $b^1 e f^8$ ...	$d^5 e f^5$ + 10	$c^2 e^6 f^3$ + 30	$c^3 d e^9$ − 260
$b^0 c d f^8$ ...	$d^4 e^3 f^4$ − 35	$c d^4 e f^5$ − 210	$c^2 d^7 f^4$ + 60
$c e^2 f^7$ ...	$d^3 e^5 f^3$ + 40	$c d^3 e^3 f^4$ + 120	$c^2 d^6 e^2 f^3$ − 500
$d^2 e f^7$ ...	$d^2 e^7 f^2$ − 10	$c d^2 e^5 f^3$ + 360	$c^2 d^5 e^4 f^2$ + 2235
$d e^3 f^6$ ...	$d e^9 f$ − 10	$c d e^7 f^2$ − 420	$c^2 d^4 e^6 f$ − 1995
$e^5 f^5$ ...	e^{11} + 5	$c e^9 f$ + 130	$c^2 d^3 e^8$ + 370
a^7 $b^2 d f^8$ ...	$b^0 c^5 f^7$ − 1	$d^6 f^5$ − 5	$c d^8 e f^3$ + 360
$e^2 f^7$ ...	$c^4 d e f^6$ + 15	$d^5 e^2 f^4$ + 195	$c d^7 e^3 f^2$ − 1320
$b^1 c^2 f^8$ ...	$c^4 e^3 f^5$ − 10	$d^4 e^4 f^3$ − 315	$c d^6 e^5 f$ + 1110
$c d e f^7$ ...	$c^3 d^3 f^6$ ...	$d^3 e^6 f^2$ + 40	$c d^5 e^7$ − 210
$c e^3 f^6$ ...	$c^3 d^2 e^2 f^5$ − 90	$d^2 e^8 f$ + 165	$d^{10} f^3$ − 81
$d^3 f^7$ ...	$c^3 d e^4 f^4$ + 120	$d e^{10}$ − 75	$d^9 e^2 f^2$ + 270
$d^2 e^2 f^6$ ...	$c^3 e^6 f^3$ − 40	$b^1 c^5 e f^6$ − 10	$d^8 e^4 f$ − 225
$d e^4 f^5$ ...	$c^2 d^4 e f^5$ + 60	$c^4 d^2 f^6$ − 60	$d^7 e^6$ + 45
$e^6 f^4$ ...	$c^2 d^3 e^3 f^4$ + 30	$c^4 d e^2 f^5$ + 210	a^4 $b^6 e f^7$ ...
$b^0 c^3 e f^7$ ...	$c^2 d^2 e^5 f^3$ − 180	$c^4 e^4 f^4$ − 110	$b^5 c d f^7$ ...
$c^2 d^2 f^7$ ...	$c^2 d e^7 f^2$ + 120	$c^3 d^3 e f^5$ ...	$c e^2 f^6$ ...
$c^2 d e^2 f^6$ ...	$c^2 e^9 f$ − 20	$c^3 d^2 e^3 f^4$ + 60	$d^2 e f^6$ ...
$c^2 e^4 f^5$ ...	$c d^6 f^5$ − 15	$c^3 d e^5 f^3$ − 360	$d e^3 f^5$ ...
$c d^3 e f^6$ ...	$c d^5 e^2 f^4$ − 110	$c^3 e^7 f^2$ + 240	$e^5 f^4$ ...
$c d^2 e^3 f^5$ ...	$c d^4 e^4 f^3$ + 265	$c^2 d^5 f^5$ + 30	$b^4 c^3 f^7$ − 10
$c d e^5 f^4$ ...	$c d^3 e^6 f^2$ − 200	$c^2 d^4 e^2 f^4$ − 210	$c^2 d e f^6$ + 90
$c e^7 f^3$ ...	$c d^2 e^8 f$ + 65	$c^2 d^3 e^4 f^3$ − 180	$c^2 e^3 f^5$ − 60
$d^5 f^6$ + 1	$c d e^{10}$ − 10	$c^2 d^2 e^6 f^2$ + 1140	$c d^3 f^6$ − 120
$d^4 e^2 f^5$ − 5	$d^7 e f^4$ + 45	$c^2 d e^8 f$ − 870	$c d^2 e^2 f^5$ + 90
$d^3 e^4 f^4$ + 10	$d^6 e^3 f^3$ − 100	$c^2 e^{10}$ + 130	$c d e^4 f^4$ ...
$d^2 e^6 f^3$ − 10	$d^5 e^5 f^2$ + 81	$c d^6 e f^4$ + 310	$c e^6 f^3$ ...
$d e^8 f^2$ + 5	$d^4 e^7 f$ − 30	$c d^5 e^3 f^3$ − 240	$d^4 e f^5$ + 110
$e^{10} f$ − 1	$d^3 e^9$ + 5	$c d^4 e^5 f^2$ − 390	$d^3 e^3 f^4$ − 50
a^6 $b^3 c f^8$ ...	a^5 $b^5 f^8$ ...	$c d^3 e^7 f$ + 280	$d^2 e^5 f^3$ − 240
$d e f^7$ ...	$b^4 c e f^7$ ...	$c d^2 e^9$ + 30	$d e^7 f^2$ + 280
$e^3 f^6$ ...	$d^2 f^7$ ...	$d^8 f^4$ − 180	$e^9 f$ − 90
$b^2 c^2 e f^7$ ...	$d e^2 f^6$ ...	$d^7 e^2 f^3$ + 300	$b^3 c^4 e f^6$ + 35
$c d^2 f^7$ ...	$e^4 f^5$ ...	$d^6 e^4 f^2$ − 120	$c^3 d^2 f^6$ − 30
$c d e^2 f^6$ ...	$b^3 c^2 d f^7$ ...	$d^5 e^6 f$ + 30	$c^3 d e^2 f^5$ − 120
$c e^4 f^5$ ...	$c^2 e^2 f^6$ ...	$d^4 e^8$ − 30	$c^3 e^4 f^4$ + 50
$d^3 e f^6$ ...	$c d^2 e f^6$ ...	$b^0 c^6 d f^6$ + 15	$c^2 d^3 e f^5$ − 60
$d^2 e^3 f^5$ ...	$c d e^3 f^5$ ...	$c^6 e^2 f^5$ + 5	$c^2 d^2 e^3 f^4$ ...
$d e^5 f^4$ ...	$c e^5 f^4$ ...	$c^5 d^2 e f^5$ − 30	$c^2 d e^5 f^3$ + 360
$e^7 f^3$ ...	$d^4 f^6$ + 10	$c^5 d e^3 f^4$ − 270	$c^2 e^7 f^2$ − 210
$b^1 c^3 d f^7$ ...	$d^3 e^2 f^5$ − 40	$c^5 e^5 f^3$ + 196	$c d^5 f^5$ + 270
$c^3 e^2 f^6$ ...	$d^2 e^4 f^4$ + 60	$c^4 d^4 f^5$ ...	$c d^4 e^2 f^4$ + 575
$c^2 d^2 e f^6$ ...	$d e^6 f^3$ − 40	$c^4 d^3 e^2 f^4$ + 225	$c d^3 e^4 f^3$ − 1700
$c^2 d e^3 f^5$ ...	$e^8 f^2$ + 10	$c^4 d^2 e^4 f^3$ + 615	$c d^2 e^6 f^2$ + 480
$c^2 e^5 f^4$ ...	$b^2 c^4 f^7$ + 5	$c^4 d e^6 f^2$ − 660	$c d e^8 f$ + 670
$c d^4 f^6$ − 15	$c^3 d e f^6$ − 60	$c^4 e^8 f$ + 45	$c e^{10}$ − 315
$c d^3 e^2 f^5$ + 60	$c^3 e^3 f^5$ + 40	$c^3 d^5 e f^4$ − 120	$d^6 e f^4$ − 685
$c d^2 e^4 f^4$ − 90	$c^2 d^3 f^6$ + 90	$c^3 d^4 e^3 f^3$ − 220	$d^5 e^3 f^3$ + 540
$c d e^6 f^3$ + 60	$c^2 d^2 e^2 f^5$ ...	$c^3 d^3 e^5 f^2$ − 980	$d^4 e^5 f^2$ + 1515

For the Numerical Verifications see p. 309.

W, 29 A (continued).

Term	Value	Term	Value	Term	Value	Term	Value
$a^4\ b^3d^3e^7f$	− 2080	$a^4\ b^1cd^6e^6$	− 615	$a^3\ b^5d^5f^5$	− 196	$a^3\ b^3d^6e^6$	− 3880
d^2e^9	+ 705	$d^{10}ef^2$	− 945	$d^4e^2f^4$	− 660	$b^2c^7ef^5$	− 300
$b^2c^5df^6$	+ 110	d^9e^3f	+ 900	$d^3e^4f^3$	+ 1840	$c^6d^2f^5$	+ 500
$c^5e^2f^5$	− 195	d^8e^5	+ 45	$d^2e^6f^2$	− 1040	$c^6de^2f^4$	+ 3810
$c^4d^2ef^5$	+ 210	$b^0c^8ef^5$	+ 180	de^8f	− 180	$c^6e^4f^3$	− 3710
$c^4de^3f^4$	− 575	$c^7d^2f^5$	− 60	e^{10}	+ 216	$c^5d^3ef^4$	− 14040
$c^4e^5f^3$	+ 660	$c^7de^2f^4$	− 1420	$b^4c^4df^6$	− 265	$c^5d^2e^3f^3$	+ 16120
$c^3d^4f^5$	− 225	$c^7e^4f^3$	+ 25	$c^4e^2f^5$	+ 315	$c^5de^6f^2$	− 540
$c^3d^3e^2f^4$	+ 1350	$c^6d^3ef^4$	+ 780	$c^3d^2ef^5$	+ 180	c^5e^7f	+ 600
$c^3d^2e^4f^3$	...	$c^6d^2e^3f^3$	+ 5760	$c^3de^3f^4$	+ 1700	$c^4d^5f^4$	+ 7020
$c^3de^6f^2$	− 1440	$c^6de^5f^2$	− 2945	$c^3e^5f^3$	− 1840	$c^4d^4e^2f^3$	...
c^3e^8f	− 75	c^6e^7f	+ 1390	$c^2d^4f^5$	+ 615	$c^4d^3e^4f^2$	− 1950
$c^2d^5ef^4$	− 1965	$c^5d^5f^4$	...	$c^2d^3e^2f^4$	− 1350	$c^4d^2e^6f$	− 17670
$c^2d^4e^3f^3$	+ 6000	$c^5d^4e^2f^3$	− 7020	$c^2d^2e^4f^3$	...	c^4de^8	+ 4170
$c^2d^3e^5f^2$	− 7050	$c^5d^3e^4f^2$	− 180	$c^2de^6f^2$	+ 1560	$c^3d^6ef^3$	+ 480
$c^2d^2e^7f$	+ 3000	$c^5d^2e^6f$	− 1275	c^2e^8f	+ 135	$c^3d^5e^3f^2$	− 31040
c^2de^9	+ 265	c^5de^8	− 1110	cd^5ef^4	+ 2210	$c^3d^4e^5f$	+ 45180
cd^7f^4	+ 1420	$c^4d^6ef^3$	+ 3120	$cd^4e^3f^3$	− 4100	$c^3d^3e^7$	− 3160
$cd^6e^2f^3$	− 3810	$c^4d^5e^3f^2$	+ 3900	$cd^3e^5f^2$	+ 6000	$c^2d^8f^3$	− 140
$cd^5e^4f^2$	+ 2310	$c^4d^4e^5f$	+ 1240	cd^2e^7f	− 4880	$c^2d^7e^2f^2$	+ 18000
cd^4e^6f	+ 1795	$c^4d^3e^7$	+ 3155	cde^9	+ 990	$c^2d^6e^4f$	− 12180
cd^3e^8	− 1800	$c^3d^8f^3$	− 515	d^7f^4	− 25	$c^2d^5e^6$	− 13430
d^8ef^3	+ 240	$c^3d^7e^2f^2$	− 2920	$d^6e^2f^3$	+ 3710	cd^9ef^2	− 7200
$d^7e^3f^2$	+ 30	$c^3d^6e^4f$	− 940	$d^5e^4f^2$	− 10755	cd^8e^3f	− 120
d^6e^5f	− 870	$c^3d^5e^6$	− 4300	d^4e^6f	+ 9875	cd^7e^5	+ 9960
d^5e^7	+ 615	$c^2d^9ef^2$	+ 675	d^3e^8	− 2845	$d^{11}f^2$	+ 1890
$b^1c^7f^6$	− 45	$c^2d^8e^3f$	+ 510	$b^3c^5f^6$	+ 100	$d^{10}e^2f$	− 540
c^6def^5	− 310	$c^2d^7e^5$	+ 2940	c^4def^5	+ 240	d^9e^4	− 1710
$c^6e^3f^4$	+ 685	$cd^{11}f^2$	...	$c^4e^3f^4$	− 540	$b^1c^8df^5$	− 360
$c^5d^3f^5$	+ 120	$cd^{10}e^2f$	− 135	$c^3d^3f^5$	+ 220	$c^8e^2f^4$	− 240
$c^5d^2e^2f^4$	+ 1965	cd^9e^4	− 990	$c^3d^2e^2f^4$	− 6000	$c^7d^2ef^4$	+ 5840
$c^5de^4f^3$	− 2210	$d^{12}ef$	...	$c^3de^4f^3$	+ 4100	$c^7de^3f^3$	− 6560
$c^5e^6f^2$	− 960	$d^{11}e^3$	+ 135	$c^3e^6f^2$	+ 1340	$c^7e^5f^2$	+ 8460
$c^4d^4ef^4$	...	$a^3\ b^7df^7$	...	$c^2d^4ef^4$	+ 11700	$c^6d^4f^4$	− 3120
$c^4d^3e^3f^3$	− 11700	e^2f^6	...	$c^2d^3e^3f^3$	...	$c^6d^3e^2f^3$	− 480
$c^4d^2e^5f^2$	+ 15435	$b^6c^2f^7$	+ 10	$c^2d^2e^5f^2$	− 15240	$c^6d^2e^4f^2$	− 25880
c^4de^7f	− 2760	$cdef^6$	− 60	c^2de^7f	+ 6960	c^6de^6f	− 1820
c^4e^9	+ 555	ce^3f^5	+ 40	c^2e^9	− 1620	c^6e^8	− 3620
$c^3d^6f^4$	− 780	d^3f^6	+ 40	cd^6f^4	− 5760	$c^5d^5ef^3$	+ 49680
$c^3d^5e^2f^3$	+ 14040	$d^2e^2f^5$	− 30	$cd^5e^2f^3$	− 16120	$c^5d^4e^3f^2$	...
$c^3d^4e^4f^2$	− 10625	de^4f^4	...	$cd^4e^4f^2$	+ 26700	$c^5d^3e^5f$	+ 17520
$c^3d^3e^6f$	− 3220	e^6f^3	...	cd^3e^6f	− 5240	$c^5d^2e^7$	+ 13500
$c^3d^2e^8$	− 570	$b^5c^3ef^6$	− 40	cd^2e^8	− 1640	$c^4d^7f^3$	− 120
$c^2d^7ef^3$	− 5840	$c^2d^2f^6$	+ 180	cd^7ef^3	+ 6560	$c^4d^6e^2f^2$	− 32280
$c^2d^6e^3f^2$	− 540	$c^2de^2f^5$	− 360	$cd^6e^3f^2$	+ 7240	$c^4d^5e^4f$	− 46880
$c^2d^5e^5f$	+ 5550	$c^2e^4f^4$	+ 240	cd^5e^5f	− 24240	$c^4d^4e^6$	− 30040
$c^2d^4e^7$	+ 1285	cd^3ef^5	+ 360	cd^4e^7	+ 11420	$c^3d^8ef^2$	+ 12860
cd^9f^3	+ 990	$cd^2e^3f^4$	+ 360	d^9f^3	− 980	$c^3d^7e^3f$	+ 32000
$cd^8e^2f^2$	+ 3150	cde^5f^3	...	$d^8e^2f^2$	− 3420	$c^3d^6e^5$	+ 46160
cd^7e^4f	− 3600	ce^7f^2	...	d^7e^4f	+ 8100	$c^2d^{10}f^2$	− 2700

W, 29 A (continued).

Term		Term		Term		Term	
$a^3\ b^1c^2d^4e^2f$	− 8820	$a^2\ b^6cd^3e^2f^4$	+ 1440	$a^2\ b^4cd^5e^6$	− 18750	$a^2\ b^2c^3d^7e^4$	+ 243000
$c^2d^8e^4$	− 34620	$cd^2e^4f^3$	− 1560	d^9ef^2	+ 14115	$c^2d^{10}ef$	+ 2340
$cd^{11}ef$	+ 1080	cde^6f^2	...	d^8e^3f	− 23790	$c^2d^9e^3$	− 89550
$cd^{10}e^3$	+ 12060	ce^8f	...	d^7e^5	+ 8175	$cd^{12}f$	+ 270
$d^{13}f$	...	d^5ef^4	+ 960	$b^3c^7df^5$	+ 1320	$cd^{11}e^2$	+ 15120
$d^{12}e^2$	− 1620	$d^4e^3f^3$	− 1340	$c^7e^2f^4$	− 30	$d^{13}e$	− 810
$b^0c^{10}f^5$	+ 81	$d^3e^5f^2$	− 2440	$c^6d^2ef^4$	+ 540	$b^1c^{10}ef^4$	+ 945
c^9def^4	− 990	d^2e^7f	+ 4320	$c^6de^3f^3$	− 7240	$c^9d^2f^4$	− 675
$c^9e^3f^3$	+ 980	de^9	− 1620	$c^6e^5f^2$	− 20390	$c^9de^2f^3$	+ 7200
$c^8d^3f^4$	+ 515	$b^5c^5f^6$	− 81	$c^5d^4f^4$	− 3900	$c^9e^4f^2$	− 14115
$c^8d^2e^2f^3$	+ 140	c^4def^5	+ 390	$c^5d^3e^2f^3$	+ 31040	$c^8d^3ef^3$	− 12860
$c^8de^4f^2$	− 195	$c^4e^3f^4$	− 1515	$c^5d^2e^4f^2$	+ 32370	$c^8d^2e^3f^2$	+ 8220
c^8e^6f	− 5575	$c^3d^3f^5$	+ 980	c^5de^6f	+ 38820	c^8de^5f	+ 150
$c^7d^4ef^3$	+ 120	$c^3d^2e^2f^4$	+ 7050	c^5e^8	+ 9310	c^8e^7	+ 6155
$c^7d^3e^3f^2$	− 800	$c^3de^4f^3$	− 6000	$c^4d^5ef^3$	− 49680	$c^7d^5f^3$	− 480
$c^7d^2e^5f$	+ 22600	$c^3e^6f^2$	+ 2440	$c^4d^4e^3f^2$	...	$c^7d^4e^2f^2$	+ 26700
c^7de^7	+ 7240	$c^2d^4ef^4$	− 15435	$c^4d^3e^5f$	− 91260	$c^7d^3e^4f$	+ 63960
$c^6d^6f^3$	...	$c^2d^3e^3f^3$	+ 15240	$c^4d^2e^7$	− 50550	$c^7d^2e^6$	− 6660
$c^6d^5e^2f^2$	− 1260	$c^2d^2e^5f^2$	...	$c^3d^7f^3$	+ 800	$c^6d^6ef^2$	...
$c^6d^4e^4f$	− 42330	c^2de^7f	− 6480	$c^3d^6e^2f^2$	+ 81840	$c^6d^5e^3f$	− 180600
$c^6d^3e^6$	− 34340	c^2e^9	+ 1215	$c^3d^5e^4f$	+ 360	$c^6d^4e^5$	− 71610
$c^5d^7ef^2$	+ 480	cd^6f^4	+ 2945	$c^3d^4e^6$	+ 101450	$c^5d^8f^2$	− 4755
$c^5d^6e^3f$	+ 48360	$cd^5e^2f^3$	+ 540	$c^2d^8ef^2$	− 8220	$c^5d^7e^2f$	+ 141240
$c^5d^5e^5$	+ 73828	$cd^4e^4f^2$	− 795	$c^2d^7e^3f$	− 58080	$c^5d^6e^4$	+ 219730
$c^4d^9f^2$	+ 105	cd^3e^6f	− 4180	$c^2d^6e^5$	− 34300	c^4d^9ef	− 45130
$c^4d^8e^2f$	− 30265	cd^2e^8	+ 4185	$cd^{10}f^2$	− 7590	$c^4d^8e^3$	− 240975
$c^4d^7e^4$	− 92290	d^7f^3	− 8460	cd^9e^2f	+ 41640	$c^3d^{11}f$	+ 5580
$c^3d^{10}ef$	+ 9540	$d^6e^3f^2$	+ 20390	cd^8e^4	− 4650	$c^3d^{10}e^2$	+ 128490
$c^3d^9e^3$	+ 69220	d^5e^5f	− 16194	$d^{11}ef$	− 5580	$c^2d^{12}e$	− 34155
$c^2d^{12}f$	− 1215	d^4e^7	+ 3765	$d^{10}e^3$	+ 1980	cd^{14}	+ 3645
$c^2d^{11}e^2$	− 30510	$b^4c^6ef^5$	+ 120	$b^2c^9f^5$	− 270	$b^0c^{11}df^4$	...
$cd^{13}e$	+ 7290	$c^5d^2f^5$	− 2235	c^8def^4	− 3150	$c^{11}e^2f^3$	− 1890
d^{15}	− 729	$c^5de^2f^4$	− 2310	$c^8e^3f^3$	+ 3420	$c^{10}d^2ef^3$	+ 2700
$a^2\ b^3cf^7$	− 5	$c^5e^4f^3$	+ 10755	$c^7d^3f^4$	+ 2920	$c^{10}de^3f^2$	+ 7590
def^6	+ 15	$c^4d^3ef^4$	+ 10625	$c^7d^2e^2f^3$	− 18000	$c^{10}e^5f$	+ 8256
e^3f^5	− 10	$c^4d^2e^3f^3$	− 26700	$c^7de^4f^2$	+ 43800	$c^9d^4f^3$	− 105
$b^7c^2ef^6$	+ 10	$c^4de^5f^2$	+ 795	c^7e^6f	+ 5030	$c^9d^3e^2f^2$	− 14360
cd^2f^6	− 120	c^4e^7f	− 10070	$c^6d^4ef^3$	+ 32280	$c^9d^2e^4f$	− 43605
cde^2f^5	+ 420	$c^3d^5f^4$	÷ 180	$c^6d^3e^3f^2$	− 81840	c^9de^6	− 12310
ce^4f^4	− 280	$c^3d^4e^2f^3$	+ 1950	$c^6d^2e^5f$	− 85800	$c^8d^5ef^2$	+ 4755
d^2ef^5	− 240	$c^3d^3e^4f^2$	...	c^6de^7	− 28710	$c^8d^4e^3f$	+ 77790
$d^2e^3f^4$	+ 210	$c^3d^2e^6f$	+ 36510	$c^5d^6f^3$	+ 1260	$c^8d^3e^5$	+ 59835
de^5f^3	...	c^3de^8	...	$c^5d^5e^2f^2$	...	$c^7d^7f^2$	...
e^7f^2	...	$c^2d^6ef^3$	+ 25880	$c^5d^4e^4f$	+ 181980	$c^7d^6e^2f$	− 57060
$b^6c^3df^6$	+ 200	$c^2d^5e^3f^2$	− 32370	$c^5d^3e^6$	+ 153480	$c^7d^5e^4$	− 114960
$c^3e^2f^5$	− 40	$c^2d^4e^5f$	− 12180	$c^4d^7ef^2$	− 26700	c^6d^8ef	+ 19020
$c^2d^2ef^5$	− 1140	$c^2d^3e^7$	− 9850	$c^4d^6e^3f$	− 41360	$c^6d^7e^3$	+ 109660
$c^2de^4f^4$	− 480	cd^8f^3	+ 195	$c^4d^5e^5$	− 306900	$c^5d^{10}f$	− 2481
$c^2e^3f^3$	+ 1040	$cd^7e^2f^2$	− 43800	$c^3d^9f^2$	+ 14360	$c^5d^9e^2$	− 56110
cd^4f^5	+ 660	cd^6e^4f	+ 72755	$c^3d^8e^2f$	− 16170	$c^4d^{11}e$	+ 14895

W, 29 A (continued).

Term	±	Value
$a^2\ b^0c^3d^{13}$	−	1620
$a^1\ b^{10}f^7$	+	1
b^9cef^6	+	10
d^2f^6	+	20
de^2f^5	−	130
e^4f^4	+	90
$b^8c^2df^6$	+	65
$c^2e^2f^5$	−	165
cd^2ef^5	+	870
cde^3f^4	−	670
ce^5f^3	+	180
d^4f^5	−	45
$d^3e^2f^4$	+	75
$d^2e^4f^3$	−	135
de^6f^2		...
e^8f		...
$b^7c^4f^6$	+	30
c^3def^5	−	280
$c^3e^3f^4$	+	2080
$c^2d^3f^5$	−	1320
$c^2d^2e^2f^4$	−	3000
$c^2de^4f^3$	+	4880
$c^2e^6f^2$	−	4320
cd^4ef^4	+	2760
$cd^3e^3f^3$	−	6960
$cd^2e^5f^2$	+	6480
cde^7f		...
ce^9		...
d^6f^4	−	1390
$d^5e^2f^3$	−	600
$d^4e^4f^2$	+	10070
d^3e^6f	−	12600
d^2e^8	+	4050
$b^6c^5ef^5$	−	30
$c^4d^2f^5$	+	1995
$c^4de^2f^4$	−	1795
$c^4e^4f^3$	−	9875
$c^3d^3ef^4$	+	3220
$c^3d^2e^3f^3$	+	5240
$c^3de^5f^2$	+	4180
c^3e^7f	+	12600
$c^2d^5f^4$	+	1275
$c^2d^4e^2f^3$	+	17670
$c^2d^3e^4f^2$	−	36510
$c^2d^2e^6f$		...
c^2de^8	−	6075
cd^6ef^3	+	1820
$cd^5e^3f^2$	−	38820
cd^4e^5f	+	66650
cd^3e^7	−	19800

Term	±	Value
$a^1\ b^6d^8f^3$	+	5575
$d^7e^2f^2$	−	5030
d^6e^4f	−	4255
d^5e^6	+	2175
$b^5c^6df^5$	−	1110
$c^6e^2f^4$	+	870
$c^5d^2ef^4$	−	5550
$c^5de^3f^3$	+	24240
$c^5e^5f^2$	+	16194
$c^4d^4f^4$	−	1240
$c^4d^3e^2f^3$	−	45180
$c^4d^2e^4f^2$	+	12180
c^4de^6f	−	66650
c^4e^8	−	8550
$c^3d^5ef^3$	−	17520
$c^3d^4e^3f^2$	+	91260
$c^3d^3e^5f$		...
$c^3d^2e^7$	+	62100
$c^2d^7f^3$	−	22600
$c^2d^6e^2f^2$	+	85800
$c^2d^5e^4f$	−	148890
$c^2d^4e^6$	+	1850
cd^8ef^2	−	150
cd^7e^3f	+	15440
cd^6e^5	+	10350
$d^{10}f^2$	−	8256
d^9e^2f	+	12210
d^8e^4	−	7050
$b^4c^8f^5$	+	225
c^7def^4	+	3600
$c^7e^3f^3$	+	8100
$c^6d^3f^4$	+	940
$c^6d^2e^2f^3$	+	12180
$c^6de^4f^2$	−	72755
c^6e^6f	+	4255
$c^5d^4ef^3$	+	46880
$c^5d^3e^3f^2$	−	360
$c^5d^2e^5f$	+	148890
c^5de^7	+	38950
$c^4d^6f^3$	+	42330
$c^4d^5e^2f^2$	−	181980
$c^4d^4e^4f$		...
$c^4d^3e^6$	−	220125
$c^3d^7ef^2$	−	63960
$c^3d^6e^3f$	+	181600
$c^3d^5e^5$	+	159000
$c^2d^9f^2$	+	43605
$c^2d^8e^2f$	−	62025
$c^2d^7e^4$	−	92500
$cd^{10}ef$	−	20610

Term	±	Value
$a^1\ b^4cd^9e^3$	+	41250
$d^{12}f$	+	5445
$d^{11}e^2$	−	6525
$b^3c^9ef^4$	−	900
$c^8d^2f^4$	−	510
$c^8de^2f^3$	+	120
$c^8e^4f^2$	+	23790
$c^7d^3ef^3$	−	32000
$c^7d^2e^3f^2$	+	58080
c^7de^5f	−	15440
c^7e^7	−	12500
$c^6d^5f^3$	−	48360
$c^6d^4e^2f^2$	+	41360
$c^6d^3e^4f$	−	181600
$c^6d^2e^6$	−	18400
$c^5d^6ef^2$	+	180600
$c^5d^5e^3f$		...
$c^5d^4e^5$	+	289800
$c^4d^8f^2$	−	77790
$c^4d^7e^2f$	−	87000
$c^4d^6e^4$	−	318500
c^3d^9ef	+	92200
$c^3d^8e^3$	+	179500
$c^2d^{11}f$	−	17520
$c^2d^{10}e^2$	−	69000
$cd^{12}e$	+	15300
d^{14}	−	1350
$b^2c^{10}df^4$	+	135
$c^{10}e^2f^3$	+	540
$c^9d^2ef^3$	+	8820
$c^9de^3f^2$	−	41640
c^9e^5f	−	12210
$c^8d^4f^3$	+	30265
$c^8d^3e^2f^2$	+	16170
$c^8d^2e^4f$	+	62025
c^8de^6	+	44225
$c^7d^5ef^2$	−	141240
$c^7d^4e^3f$	+	87000
$c^7d^3e^5$	−	129000
$c^6d^7f^2$	+	57060
$c^6d^6e^2f$		...
$c^6d^5e^4$	−	5250
c^5d^8ef	−	46050
$c^5d^7e^3$	+	122800
$c^4d^{10}f$	+	10595
$c^4d^9e^2$	−	88125
$c^3d^{11}e$	+	27300
c^2d^{13}	−	3375
$b^1c^{12}f^4$		...
$c^{11}def^3$	−	1080

Term	±	Value
$a^1\ b^1c^{11}e^3f^2$	+	5580
$c^{10}d^3f^3$	−	9540
$c^{10}d^2e^2f^2$	−	2340
$c^{10}de^4f$	+	20610
$c^{10}e^6$	−	4350
$c^9d^4ef^2$	+	45130
$c^9d^3e^3f$	−	92200
$c^9d^2e^5$	−	25050
$c^8d^6f^2$	−	19020
$c^8d^5e^2f$	+	46050
$c^8d^4e^4$	+	138750
c^7d^7ef		...
$c^7d^6e^3$	−	178200
c^6d^9f	−	1650
$c^6d^8e^2$	+	103950
$c^5d^{10}e$	−	30250
c^4d^{12}	+	3600
$b^0c^{13}ef^3$		...
$c^{12}d^2f^3$	+	1215
$c^{12}de^2f^2$	−	270
$c^{12}e^4f$	−	5445
$c^{11}d^3ef^2$	−	5580
$c^{11}d^2e^3f$	+	17520
$c^{11}de^5$	+	8700
$c^{10}d^5f^2$	+	2481
$c^{10}d^4e^2f$	−	10595
$c^{10}d^3e^4$	−	31150
c^9d^6ef	+	1650
$c^9d^5e^3$	+	37950
c^8d^8f		...
$c^8d^7e^2$	−	22275
c^7d^9e	+	6600
c^6d^{11}	+	800
$a^0\ b^{11}ef^6$	−	5
$b^{10}cdf^6$	+	10
ce^2f^5	+	75
d^2ef^5	−	130
de^3f^4	+	315
e^5f^3	−	216
$b^9c^3f^6$	−	5
c^2def^5	−	30
$c^2e^3f^4$	−	705
cd^3f^5	+	260
$cd^2e^2f^4$	−	265
cde^4f^3	+	990
ce^6f^2	+	1620
d^4ef^4	−	555
$d^3e^3f^3$	+	1620
$d^2e^5f^2$	−	1215
de^7f		...

W, 29 A (concluded).

Term		Term		Term		Term	
$a^0\ b^9e^9$	...	$a^0\ b^6c^3d^6f^3$	$+\ 34340$	$a^0\ b^4c^4d^8ef$	$-\ 138750$	$a^0\ b^1c^{10}d^4e^3$	$-\ 17875$
$b^8c^4ef^5$	$+\ 30$	$c^3d^5e^2f^2$	$-\ 153480$	$c^4d^7e^3$	$-\ 1250$	c^9d^7f	$-\ 6600$
$c^3d^2f^5$	$-\ 370$	$c^3d^4e^4f$	$+\ 220125$	$c^3d^{10}f$	$+\ 31150$	$c^9d^6e^2$	$+\ 4125$
$c^3de^2f^4$	$+\ 1800$	$c^3d^3e^6$	...	$c^3d^9e^2$	$-\ 40000$	c^8d^8e	...
$c^3e^4f^3$	$+\ 2845$	$c^2d^7ef^2$	$+\ 6660$	$c^2d^{11}e$	$-\ 18750$	c^7d^{10}	...
$c^2d^3ef^4$	$+\ 570$	$c^2d^6e^3f$	$+\ 18400$	cd^{13}	$+\ 2250$	$b^0c^{15}f^3$	$+\ 729$
$c^2d^2e^3f^3$	$+\ 1640$	$c^2d^5e^5$	$-\ 73375$	$b^3c^{11}f^4$	$-\ 135$	$c^{14}def^2$	$-\ 3645$
$c^2de^5f^2$	$-\ 4185$	cd^9f^2	$+\ 12310$	$c^{10}def^3$	$-\ 12060$	$c^{14}e^3f$	$-\ 1350$
c^2e^7f	$-\ 4050$	cd^8e^2f	$-\ 44225$	$c^{10}e^3f^2$	$-\ 1980$	$c^{13}d^3f^2$	$-\ 1620$
cd^5f^4	$+\ 1110$	cd^7e^4	$+\ 42500$	$c^9d^3f^3$	$-\ 69220$	$c^{13}d^2e^2f$	$+\ 3375$
$cd^4e^2f^3$	$-\ 4170$	$d^{10}ef$	$+\ 4350$	$c^9d^2e^2f^2$	$+\ 89550$	$c^{13}de^4$	$-\ 2250$
$cd^3e^4f^2$	...	d^9e^3	$-\ 5125$	c^9de^4f	$-\ 41250$	$c^{12}d^4ef$	$-\ 3600$
cd^2e^6f	$+\ 6075$	$b^5c^8ef^4$	$+\ 45$	c^9e^6	$+\ 5125$	$c^{12}d^3e^3$	$+\ 2125$
cde^8	...	$c^7d^2f^4$	$-\ 2940$	$c^8d^4ef^2$	$+\ 240975$	$c^{11}d^6f$	$+\ 800$
d^6ef^3	$+\ 3620$	$c^7de^2f^3$	$-\ 9960$	$c^8d^3e^3f$	$-\ 179500$	$c^{11}d^5e^2$	$-\ 500$
$d^5e^3f^2$	$-\ 9310$	$c^7e^4f^2$	$-\ 8175$	$c^8d^2e^5$	$-\ 80125$	$c^{10}d^7e$	...
d^4e^5f	$+\ 8550$	$c^6d^3ef^3$	$-\ 46160$	$c^7d^6f^2$	$-\ 109660$	c^9d^9	...
d^3e^7	$-\ 3375$	$c^6d^2e^3f^2$	$+\ 34300$	$c^7d^5e^2f$	$-\ 122800$		
$b^7c^5df^5$	$+\ 210$	c^6de^5f	$-\ 10350$	$c^7d^4e^4$	$+\ 1250$		
$c^5e^2f^4$	$+\ 615$	c^6e^7	$+\ 7375$	c^6d^7ef	$+\ 178200$		
$c^4d^2ef^4$	$-\ 1285$	$c^5d^5f^3$	$-\ 73828$	$c^6d^6e^3$	...		
$c^4de^3f^3$	$-\ 11420$	$c^5d^4e^2f^2$	$+\ 306900$	c^5d^9f	$-\ 37950$		
$c^4e^5f^2$	$-\ 3765$	$c^5d^3e^4f$	$-\ 159000$	$c^5d^8e^2$	$-\ 37125$		
$c^3d^4f^4$	$-\ 3155$	$c^5d^2e^6$	$-\ 73375$	$c^4d^{10}f$	$+\ 17875$		
$c^3d^3e^2f^3$	$+\ 3160$	$c^4d^6f^2$	$+\ 71610$	c^3d^{12}	$-\ 2125$		
$c^3d^2e^4f^2$	$+\ 9850$	$c^4d^5e^3f$	$-\ 289800$	$b^2c^{12}ef^3$	$+\ 1620$		
c^3de^6f	$+\ 19800$	$c^4d^4e^5$	...	$c^{11}d^2f^3$	$+\ 30510$		
c^3e^8	$+\ 3375$	$c^3d^8f^2$	$-\ 59835$	$c^{11}de^2f^2$	$-\ 15120$		
$c^2d^5ef^3$	$-\ 13500$	$c^3d^7e^2f$	$+\ 129000$	$c^{11}e^4f$	$+\ 6525$		
$c^2d^4e^3f^2$	$+\ 50550$	$c^3d^6e^4$	$-\ 80500$	$c^{10}d^3ef^2$	$-\ 128490$		
$c^2d^3e^5f$	$-\ 62100$	c^2d^9ef	$+\ 25050$	$c^{10}d^2e^3f$	$+\ 69000$		
$c^2d^2e^7$	...	$c^2d^8e^3$	$-\ 80125$	$c^{10}de^5$	$-\ 19875$		
cd^7f^3	$-\ 7240$	$cd^{11}f$	$-\ 8700$	$c^9d^5f^2$	$+\ 56110$		
$cd^6e^2f^2$	$+\ 28710$	$cd^{10}e^2$	$-\ 19875$	$c^9d^4e^2f$	$+\ 88125$		
cd^5e^4f	$-\ 38950$	$d^{12}e$	$-\ 1125$	$c^9d^3e^4$	$-\ 40000$		
cd^4e^6	$+\ 25875$	$b^4c^9df^4$	$+\ 990$	c^8d^6ef	$-\ 103950$		
d^8ef^2	$-\ 6155$	$c^9e^2f^3$	$+\ 1710$	$c^8d^5e^3$	$+\ 37125$		
d^7e^3f	$+\ 12500$	$c^8d^2ef^3$	$+\ 34620$	c^7d^8f	$+\ 22275$		
d^6e^5	$-\ 7375$	$c^8de^3f^2$	$+\ 4650$	$c^7d^7e^2$	...		
$b^6c^7f^5$	$+\ 45$	c^8e^5f	$+\ 7050$	c^6d^9e	$-\ 4125$		
c^6def^4	$+\ 615$	$c^7d^4f^3$	$+\ 92290$	c^5d^{11}	$+\ 500$		
$c^6e^3f^3$	$+\ 3880$	$c^7d^3e^2f^2$	$-\ 243000$	$b^1c^{13}df^3$	$-\ 7290$		
$c^5d^3f^4$	$+\ 4300$	$c^7d^2e^4f$	$+\ 92500$	$c^{13}e^2f^2$	$+\ 810$		
$c^5d^2e^2f^3$	$+\ 13430$	c^7de^6	$-\ 42500$	$c^{12}d^2ef^2$	$+\ 34155$		
$c^5de^4f^2$	$+\ 18750$	$c^6d^5ef^2$	$-\ 219730$	$c^{12}de^3f$	$-\ 15300$		
c^5e^6f	$-\ 2175$	$c^6d^4e^3f$	$+\ 318500$	$c^{12}e^5$	$+\ 1125$		
$c^4d^4ef^3$	$+\ 30040$	$c^6d^3e^5$	$-\ 80500$	$c^{11}d^4f^2$	$-\ 14895$		
$c^4d^3e^3f^2$	$-\ 101450$	$c^5d^7f^2$	$+\ 114960$	$c^{11}d^3e^2f$	$-\ 27300$		
$c^4d^2e^5f$	$-\ 1850$	$c^5d^6e^2f$	$+\ 5250$	$c^{11}d^2e^4$	$+\ 18750$		
c^4de^7	$-\ 25875$	$c^5d^5e^4$	...	$c^{10}d^5ef$	$+\ 30250$		

For the lower covariants the numerical verifications are given for the entire coefficient, but for the higher ones where the number of terms in a coefficient is considerable they are given separately for the different powers of a; and it is also interesting to consider them for the separate combinations of a and b. I recall that the positive and negative numerical coefficients are summed separately, so that ($\pm$ a number) means that the sum of the positive numerical coefficients is equal to the sum of the negative numerical coefficients and thus that the whole sum is $= 0$.

It is to be observed that for the lower covariants the sums of the numerical coefficients do not vanish for the separate powers of a: thus in the invariant G, 141, the sums of the numerical coefficients for the terms in a^2, a^1, a^0 are $= 1$, -2, 1 respectively.

As regards the invariants Q and Q'; for the first of these, Q, the sums of the numerical coefficients for the terms in a^4, a^3, a^2, a^1, a^0 are each of them $= 0$, but this is not the case as regards Q'; in fact Q' is $= G^2 +$ a multiple of Q; hence the sums for Q are the same as those for G^2, viz. they are $= 1$, -4, $+6$, -4, $+1$ respectively. Like results present themselves in other cases, and they might probably be accounted for in a similar manner; we have a series of sums not each $= 0$, but which are equal to a set of binomial coefficients taken with the signs $+$ and $-$ alternately and thus the sum of these sums is $= 0$.

For R, S and S', I have given the sums for the different powers of a; and in regard to S I give here the following paragraphs from the Tenth Memoir on Quantics:—

I remark that I calculated the first two coefficients S_0, S_1, and deduced the other two, S_2 from S_1, and S_3 from S_0, by reversing the order of the letters (or which is the same thing, interchanging a and f, b and e, c and d) and reversing also the signs of the numerical coefficients. This process for S_2, S_3 is to a very great extent a verification of the values of S_0, S_1. For, as presently mentioned, the terms of S_0 form subdivisions such that in each subdivision the sum of the numerical coefficients is $= 0$: in passing by the reversal process to the value of S_3, the terms are distributed into an entirely new set of subdivisions, and then in each of these subdivisions the sum of the numerical coefficients is found to be $= 0$; and the like as regards S_1 and S_3.

If in the expressions for S_0, S_1, S_2, S_3 we first write $d = e = f = 1$, thus in effect combining the numerical coefficients for the terms which contain the same powers in a, b, c, we find

$$S_0 = \quad a^3 \left(-2c^3 + 6c^2 - 6c + 2\right)$$
$$+ a^2 \left\{ b^2 \left(6c^2 - 12c - 6\right) + b \left(-15c^3 + 33c^2 - 21c + 3\right) \right.$$
$$\left. + b^0 \left(42c^4 - 147c^3 + 195c^2 - 117c + 27\right) \right\}$$
$$+ a \quad \left\{ b^4 . 0 + b^3 \left(30c^2 - 36c + 6\right) + b^2 \left(-117c^3 + 249c^2 - 183c + 51\right) \right.$$
$$\left. + b \left(9c^5 + 148c^4 - 378c^3 + 330c^2 - 99c\right) + b^0 \left(-63c^6 + 165c^5 - 147c^4 + 45c^3\right) \right\}$$

$+ a^0 . \{b^6 . 2 + b^5 (-15c + 3) + b^4 (75c^2 - 69c + 24) + b^3 (-9c^4 - 167c^3 + 225c^2 - 87c - 2)$

$\qquad + b^2 (72c^5 + 48c^4 - 186c^3 + 96c^2) + b (-126c^6 + 201c^5 - 87c^4)$

$\qquad + b^0 (27c^8 - 45c^7 + 20c^6)\}$

which for $c = 1$ becomes

$$= 2b^6 - 12b^5 + 30b^4 - 40b^3 + 30b^2 - 12b + 2, \text{ that is } 2 (b - 1)^6,$$

and for $b = 1$, becomes $= 0$.

$S_2 = \quad a^3 (0c^2 + 0c + 0)$

$\qquad + a^2 \{b^2 (0c + 0) + b (3c^3 - 9c^2 + 9c - 3) + b^0 (24c^4 - 99c^3 + 153c^2 - 105c + 27)\}$

$\qquad + a \;\{b^4 . 0 + b^3 (-6c^2 + 12c - 6) + b^2 (-24c^3 + 90c^2 - 108c + 42)$

$\qquad\qquad + b (33c^4 - 90c^3 + 54c^2 + 30c - 27) + b^0 (-27c^6 + 78c^5 - 66c^4 + 6c^3 + 9c^2)\}$

$\qquad + a^0 \{b^5 (3c - 3) + b^4 (-15c + 15) + b^3 (6c^3 - 12c^2 + 36c - 30)$

$\qquad\qquad + b^2 (9c^5 - 42c^4 + 84c^3 - 108c^2 + 57c) + b (9c^6 - 54c^5 + 96c^4 - 51c^3)$

$\qquad\qquad + b^0 (9c^7 - 9c^6)\}$

which for $c = 1$ becomes $= 0$.

$S_3 = \quad a^3 (0c + 0)$

$\qquad + a^2 \{b^2 . 0 + b (0c^2 + 0c + 0) + b^0 (18c^4 - 72c^3 + 108c^2 - 72c + 18)\}$

$\qquad + a \;\{b^3 (0c + 0) + b^2 (-33c^3 + 99c^2 - 99c + 33) + b (57c^4 - 162c^3 + 144c^2 - 30c - 9)$

$\qquad\qquad + b^0 (-60c^5 + 207c^4 - 261c^3 + 141c^2 - 27c)\}$

$\qquad + a^0 \{b^5 . 0 + b^4 (15c^2 - 30c + 15) + b^3 (-54c^3 + 102c^2 - 42c - 6)$

$\qquad\qquad + b^2 (123c^4 - 297c^3 + 243c^2 - 87c + 18) + b (-27c^6 + 102c^4 - 96c^3 + 21c^2)$

$\qquad\qquad + b^0 (27c^7 - 60c^6 + 51c^5 - 12c^4)\}$

which for $c = 1$ becomes $= 0$.

$S_4 = \quad a^3 . 0$

$\qquad + a^2 \{b (0c + 0) + b^0 (0c^3 + 0c^2 + 0c + 0)\}$

$\qquad + a \;\{b^3 . 0 + b^2 (0c^2 + 0c + 0) + b (-9c^4 + 36c^3 - 54c^2 + 36c - 9)$

$\qquad\qquad + b^0 (36c^5 - 171c^4 + 324c^3 - 306c^2 + 144c - 27)\}$

$\qquad + a^0 \{b^4 (0c + 0) + b^3 (7c^3 - 21c^2 + 21c - 7) + b^2 (-39c^4 + 135c^3 - 171c^2 + 93c - 18)$

$\qquad\qquad + b (66c^5 - 243c^4 + 333c^3 - 201c^2 + 45c)$

$\qquad\qquad + b^0 (-27c^7 + 101c^6 - 141c^5 + 87c^4 - 20c^3)\}$

which for $c = 1$ becomes $= 0$.

It follows that for $c = d = e = f = 1$, the value of the covariant S is $= 2 (b - 1)^6 x^3$, which might be easily verified.

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For T, U, V and W, I look at the sums for the different combinations of a and b.

Thus for T we have

	x coefficient.			y coefficient.	
$a^4 b^0$	26		$a^4 b^0$	± 12	
		± 26			± 12
$a^3 b^2$	± 14		$a^3 b^2$	± 2	
b^1	141		b^1	112	
b^0	281		b^0	281	
		± 436			± 395
$a^2 b^4$	± 1		$a^2 b^3$	± 42	
b^3	106		b^2	546	
b^2	186		b^1	696	
b^1	1173		b^0	366	
b^0	2272				
		± 3738			± 1650
$a^1 b^5$	± 16		$a^1 b^5$	± 5	
b^4	359		b^4	179	
b^3	1411		b^3	821	
b^2	3103		b^2	2097	
b^1	3030		b^1	2147	
b^0	1197		b^0	1262	
		± 9116			± 6511
$a^0 b^7$	− 2				
b^6	92 − 78		$a^0 b^6$	± 28	
b^5	307 − 349		b^5	342	
b^4	1073 − 1003		b^4	1790	
b^3	2040 − 2110		b^3	3496	
b^2	1930 − 1880		b^2	3445	
b^1	1207 − 1221		b^1	2064	
b^0	231 − 239		b^0	463	
		± 6880			± 11628
		± 20196			± 20196

Observe here that in the x-coefficient for the terms in a^0 the successive sums are $-2, +14, -42, +70, -70, +42, -14+2$, which are the coefficients of $-2(\theta-1)^7$.

For U we have

$a^4\,b^0$	$\pm$ 36	
		$\pm$ 36
$a^3\,b^2$	$\pm$ 24	
b^1	198	
b^0	242	
		$\pm$ 464
$a^2\,b^4$	$\pm$ 2	
b^8	208	
b^2	286	
b^1	866	
b^0	1246	
		$\pm$ 2608
$a^1\,b^5$	$\pm$ 64	
b^4	328	
b^3	1258	
b^2	2586	
b^1	2186	
b^0	856	
		$\pm$ 7278
$a^0\,b^7$	$\pm$ 4	
b^6	70	
b^5	448	
b^4	1488	
b^3	2140	
b^2	1678	
b^1	884	
b^0	166	
		$\pm$ 6878
		$\pm$ 17264

For V we have

	x coefficient.				y coefficient.	
$a^5 b^0$		± 36		$a^5 b^0$		± 24
			± 36			
						± 24
$a^4 b^2$		± 20		$a^4 b^2$		± 4
b^1		284		b^1		144
b^0		1094		b^0		436
			± 1398			± 584
$a^3 b^4$		2		$a^3 b^3$		± 24
b^3		184		b^2		776
b^2		1656		b^1		2696
b^1		3624		b^0		1264
b^0		4898				± 4760
			± 10364			
$a^2 b^5$		± 14		$a^2 b^5$		± 6
b^4		666		b^4		300
b^3		6608		b^3		2236
b^2		10512		b^2		8616
b^1		22042		b^1		15442
b^0		9162		b^0		33044
			± 49004			± 59644
$a^1 b^7$		− 4		$a^1 b^6$		± 78
b^6	76	− 48		b^5		852
b^5	2956	− 3040		b^4		8310
b^4	11946	− 11806		b^3		30200
b^3	23924	− 24064		b^2		56740
b^2	25110	− 25026		b^1		39956
b^1	25524	− 25552		b^0		17986
b^0	8822	− 8812				±154122
			± 98358			
$a^0 b^8$	18			$a^0 b^8$		− 2
b^7	184	− 324		b^7	286	− 270
b^6	4098	− 3622		b^6	2026	− 2082
b^5	19350	− 20274		b^5	9360	− 9248
b^4	42398	− 41278		b^4	19760	− 19900
b^3	51872	− 52740		b^3	36442	− 36330
b^2	44320	− 43900		b^2	30340	− 30396
b^1	20624	− 20740		b^1	23426	− 23410
b^0	3870	− 3856		b^0	5120	− 5122
			±186734			±126760
			±345894			±345894

Here in the x-coefficient for a^1 the successive sums are -4, $+28$, -84, $+140$, -140, $+84$, -28, $+4$, which are the coefficients of $-4(\theta-1)^7$; and for a^0 the successive sums are 18, -140, $+476$, -924, $+1120$, -868, $+420$, -116, $+14$, which are the coefficients of $18(\theta-1)^8 + 4(\theta-1)^7$. In the y-coefficient the successive sums are -2, $+16$, -56, $+112$, -140, $+112$, -56, $+16$, -2, which are the coefficients of $-2(\theta-1)^8$.

Finally for W we have

						$\pm$ 2972759
$a^7 b^0$	$\pm$	16		$a^1 b^{10}$	$+$	1
	$\pm$	16		b^9	120 $-$	130
$a^6 b$	$\pm$	175		b^8	1125 $-$	1080
b^0		806		b^7	30350 $-$	30470
	$\pm$	981		b^6	122400 $-$	122190
$a^5 b^3$	$\pm$	80		b^5	332494 $-$	332746
b^2		1175		b^4	729150 $-$	728940
b^1		2760		b^3	880750 $-$	880870
b^0		6871		b^2	466935 $-$	466890
	$\pm$	10886		b^1	363670 $-$	363680
$a^4 b^4$	$\pm$	570		b^0	76116 $-$	76115
b^3		5200				$\pm$ 3003111
b^2		18005		$a^0 b^{11}$	$+$ $-$	5
b^1		44720		b^{10}	400 $-$	346
b^0		23810		b^9	3500 $-$	3765
	$\pm$	92305		b^8	26240 $-$	25460
$a^3 b^6$	$\pm$	90		b^7	154030 $-$	155560
b^5		2386		b^6	409700 $-$	407600
b^4		26675		b^5	747985 $-$	750043
b^3		84680		b^4	745920 $-$	744480
b^2		107730		b^3	613100 $-$	613805
b^1		199160		b^2	311790 $-$	311560
b^0		240499		b^1	89215 $-$	89260
	$\pm$	661220		b^0	9999 $-$	9995
$a^2 b^8$	$\pm$	15				$\pm$ 3111879
b^7		640				$\pm$ 9087749
b^6		8260				
b^5		59135				
b^4		182055				
b^3		341470				
b^2		699260				
b^1		612015				
b^0		304501				
	$\pm$	2207351				

Here for the terms in a^1 the successive sums are

$$1, -10, +45, -120, +210, -252, +210, -120, +45, -10, +1,$$

which are the coefficients of $(\theta - 1)^{10}$; and for the terms in a^0 the successive sums are

$$-5, +54, -265, +780, -1530, +2100, -2058, +1440, -705, +230, -45, +4,$$

which are the coefficients of $-5(\theta - 1)^{11} - (\theta - 1)^{10}$.