

VI. Addition to Memoir on the Resultant of a System of two Equations.

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THE elimination tables in the Memoir on the Resultant of a System of two Equations (Phil. Trans. 1857, pp. 703–715), relate to equations of the form $(a, b \dots \chi(x, y))^m = 0$, without numerical coefficients; but it is, I think, desirable to give the corresponding tables for equations in the form $(a, b, \dots \chi(x, y))^m = 0$ with numerical coefficients, which is the standard form in quantics. The transformation can of course be effected without difficulty, and the results are as here given. It is easy to see *à priori* that the sum of the numerical coefficients in each table ought to vanish; these sums do in fact vanish, and we have thus a verification as well of the tables of the present Addition as of the tables of the original memoir, by means whereof the present tables were calculated.

Table (2, 2).

Resultant of
 $(a, b, c \chi(x, y))^2$,
 $(p, q, r \chi(x, y))^2$.

a^2	p^2
ab	pr
ac	pr
b^2	q^2
bc	qr
c^2	r^2
a^2	p^2
ab	pr
ac	pr
b^2	q^2
bc	qr
c^2	r^2

Table (3, 2).

Resultant of
 $(a, b, c, d \chi(x, y))^3$,
 $(p, q, r \chi(x, y))^2$.

a^3	p^3
ad	pr^2
ac	pr^2
b^3	q^3
bd	qr^2
bc	qr^2
ad	pr^2
bd	qr^2
a^2	p^2
ad	pr^2
ac	pr^2
b^2	q^2
bd	qr^2
bc	qr^2
a^2	p^2
ad	pr^2
ac	pr^2
b^2	q^2
bd	qr^2
bc	qr^2
a^2	p^2
ad	pr^2
ac	pr^2
b^2	q^2
bd	qr^2
bc	qr^2
a^2	p^2
ad	pr^2
ac	pr^2
b^2	q^2
bd	qr^2
bc	qr^2
a^2	p^2
ad	pr^2
ac	pr^2
b^2	q^2
bd	qr^2
bc	qr^2
a^2	p^2
ad	pr^2
ac	pr^2
b^2	q^2
bd	qr^2
bc	qr^2

Table (4, 2).
Resultant of
 $(a, b, c, d, e)(x, y)^4,$
 $(p, q, r)(x, y)^2.$

			a^2	a^2			
			+1	$2ab$	a^2		
			-8	$8ab$	$8a^2b$		
		b^2	-12	$24ab$	$24a^2b$	b^2	
		+16	-24	$48ab$	$48a^2b$	+16	
			+24	$48ab$	$48a^2b$		
			-48	$96ab$	$96a^2b$		
		$3b^2$	+2	$12ab$	$12a^2b$	$3b^2$	
		-32	-16	$32ab$	$32a^2b$	-32	
		+36	+64	$72ab$	$72a^2b$	+36	
			+24	$48ab$	$48a^2b$		
			-48	$96ab$	$96a^2b$		
		$6b^2$	-12	$24ab$	$24a^2b$	$6b^2$	
		+16	+24	$48ab$	$48a^2b$	+16	
			-8	$16ab$	$16a^2b$		
			+1	$2ab$	$2a^2b$		
		c^2				c^2	

Table (3, 3)*.
Resultant of
 $(a, b, c, d)(x, y)^3$
 $(p, q, r, s)(x, y)^3.$

				a^2	a^2		
				+1	$2ab$	a^2	
				-6	$12ab$	$12a^2b$	
		b^2		-18	$36ab$	$36a^2b$	b^2
		+27		-27	$54ab$	$54a^2b$	+27
				-3	$12ab$	$12a^2b$	
		$3b^2$		-18	$36ab$	$36a^2b$	$3b^2$
		+27		-27	$54ab$	$54a^2b$	+27
				-9	$18ab$	$18a^2b$	
		$6b^2$		-54	$108ab$	$108a^2b$	$6b^2$
		+81		-81	$162ab$	$162a^2b$	+81
				-9	$18ab$	$18a^2b$	
		$9b^2$		-54	$108ab$	$108a^2b$	$9b^2$
		+81		-81	$162ab$	$162a^2b$	+81
				+9	$18ab$	$18a^2b$	
		$12b^2$		+54	$324ab$	$324a^2b$	$12b^2$
		+81		-81	$162ab$	$162a^2b$	+81
				+54	$108ab$	$108a^2b$	
		$15b^2$		+54	$324ab$	$324a^2b$	$15b^2$
				-81	$162ab$	$162a^2b$	
		$18b^2$		-81	$324ab$	$324a^2b$	$18b^2$
				+1	$2ab$	$2a^2b$	
		c^2					c^2

				a^2	a^2		
				+3	$6ab$	$6a^2b$	
				-27	$54ab$	$54a^2b$	
		b^2		-27	$54ab$	$54a^2b$	b^2
		+27		-27	$54ab$	$54a^2b$	+27
				+18	$36ab$	$36a^2b$	
		$3b^2$		-27	$54ab$	$54a^2b$	$3b^2$
		+27		-27	$54ab$	$54a^2b$	+27
				+6	$12ab$	$12a^2b$	
		$6b^2$		-27	$54ab$	$54a^2b$	$6b^2$
		+27		-27	$54ab$	$54a^2b$	+27
				+1	$2ab$	$2a^2b$	
		c^2					c^2

* N.B. In the corresponding table of the memoir, there is an error in the signs of the last two terms; they should be

				a^2	a^2	
				+1	$2ab$	$2a^2b$
				-1	$2ab$	$2a^2b$
		c^2				c^2

Table (4, 4).
 Resultant of
 $(a, b, c, d, e)(x, y)^4$,
 $(p, q, r, s, t)(x, y)^4$.

	a^4	a^3b	a^2b^2	a^2c	a^2bc	a^2b^2c	a^3c	a^2b^2c	a^2bc^2	$a^2b^2c^2$	a^3c^2	$a^2b^2c^2$	a^2bc^3	$a^2b^2c^3$	a^3c^3	$a^2b^2c^3$	a^2bc^4	$a^2b^2c^4$	a^3c^4	$a^2b^2c^4$	a^2bc^5	$a^2b^2c^5$	a^3c^5	$a^2b^2c^5$	a^2bc^6	$a^2b^2c^6$	a^3c^6	$a^2b^2c^6$	a^2bc^7	$a^2b^2c^7$	a^3c^7	$a^2b^2c^7$	a^2bc^8	$a^2b^2c^8$	a^3c^8	$a^2b^2c^8$	a^2bc^9	$a^2b^2c^9$	a^3c^9	$a^2b^2c^9$	a^2bc^{10}	$a^2b^2c^{10}$	a^3c^{10}	$a^2b^2c^{10}$	a^2bc^{11}	$a^2b^2c^{11}$	a^3c^{11}	$a^2b^2c^{11}$	a^2bc^{12}	$a^2b^2c^{12}$	a^3c^{12}	$a^2b^2c^{12}$	a^2bc^{13}	$a^2b^2c^{13}$	a^3c^{13}	$a^2b^2c^{13}$	a^2bc^{14}	$a^2b^2c^{14}$	a^3c^{14}	$a^2b^2c^{14}$	a^2bc^{15}	$a^2b^2c^{15}$	a^3c^{15}	$a^2b^2c^{15}$	a^2bc^{16}	$a^2b^2c^{16}$	a^3c^{16}	$a^2b^2c^{16}$	a^2bc^{17}	$a^2b^2c^{17}$	a^3c^{17}	$a^2b^2c^{17}$	a^2bc^{18}	$a^2b^2c^{18}$	a^3c^{18}	$a^2b^2c^{18}$	a^2bc^{19}	$a^2b^2c^{19}$	a^3c^{19}	$a^2b^2c^{19}$	a^2bc^{20}	$a^2b^2c^{20}$	a^3c^{20}	$a^2b^2c^{20}$	a^2bc^{21}	$a^2b^2c^{21}$	a^3c^{21}	$a^2b^2c^{21}$	a^2bc^{22}	$a^2b^2c^{22}$	a^3c^{22}	$a^2b^2c^{22}$	a^2bc^{23}	$a^2b^2c^{23}$	a^3c^{23}	$a^2b^2c^{23}$	a^2bc^{24}	$a^2b^2c^{24}$	a^3c^{24}	$a^2b^2c^{24}$	a^2bc^{25}	$a^2b^2c^{25}$	a^3c^{25}	$a^2b^2c^{25}$	a^2bc^{26}	$a^2b^2c^{26}$	a^3c^{26}	$a^2b^2c^{26}$	a^2bc^{27}	$a^2b^2c^{27}$	a^3c^{27}	$a^2b^2c^{27}$	a^2bc^{28}	$a^2b^2c^{28}$	a^3c^{28}	$a^2b^2c^{28}$	a^2bc^{29}	$a^2b^2c^{29}$	a^3c^{29}	$a^2b^2c^{29}$	a^2bc^{30}	$a^2b^2c^{30}$	a^3c^{30}	$a^2b^2c^{30}$	a^2bc^{31}	$a^2b^2c^{31}$	a^3c^{31}	$a^2b^2c^{31}$	a^2bc^{32}	$a^2b^2c^{32}$	a^3c^{32}	$a^2b^2c^{32}$	a^2bc^{33}	$a^2b^2c^{33}$	a^3c^{33}	$a^2b^2c^{33}$	a^2bc^{34}	$a^2b^2c^{34}$	a^3c^{34}	$a^2b^2c^{34}$	a^2bc^{35}	$a^2b^2c^{35}$	a^3c^{35}	$a^2b^2c^{35}$	a^2bc^{36}	$a^2b^2c^{36}$	a^3c^{36}	$a^2b^2c^{36}$	a^2bc^{37}	$a^2b^2c^{37}$	a^3c^{37}	$a^2b^2c^{37}$	a^2bc^{38}	$a^2b^2c^{38}$	a^3c^{38}	$a^2b^2c^{38}$	a^2bc^{39}	$a^2b^2c^{39}$	a^3c^{39}	$a^2b^2c^{39}$	a^2bc^{40}	$a^2b^2c^{40}$	a^3c^{40}	$a^2b^2c^{40}$	a^2bc^{41}	$a^2b^2c^{41}$	a^3c^{41}	$a^2b^2c^{41}$	a^2bc^{42}	$a^2b^2c^{42}$	a^3c^{42}	$a^2b^2c^{42}$	a^2bc^{43}	$a^2b^2c^{43}$	a^3c^{43}	$a^2b^2c^{43}$	a^2bc^{44}	$a^2b^2c^{44}$	a^3c^{44}	$a^2b^2c^{44}$	a^2bc^{45}	$a^2b^2c^{45}$	a^3c^{45}	$a^2b^2c^{45}$	a^2bc^{46}	$a^2b^2c^{46}$	a^3c^{46}	$a^2b^2c^{46}$	a^2bc^{47}	$a^2b^2c^{47}$	a^3c^{47}	$a^2b^2c^{47}$	a^2bc^{48}	$a^2b^2c^{48}$	a^3c^{48}	$a^2b^2c^{48}$	a^2bc^{49}	$a^2b^2c^{49}$	a^3c^{49}	$a^2b^2c^{49}$	a^2bc^{50}	$a^2b^2c^{50}$	a^3c^{50}	$a^2b^2c^{50}$	a^2bc^{51}	$a^2b^2c^{51}$	a^3c^{51}	$a^2b^2c^{51}$	a^2bc^{52}	$a^2b^2c^{52}$	a^3c^{52}	$a^2b^2c^{52}$	a^2bc^{53}	$a^2b^2c^{53}$	a^3c^{53}	$a^2b^2c^{53}$	a^2bc^{54}	$a^2b^2c^{54}$	a^3c^{54}	$a^2b^2c^{54}$	a^2bc^{55}	$a^2b^2c^{55}$	a^3c^{55}	$a^2b^2c^{55}$	a^2bc^{56}	$a^2b^2c^{56}$	a^3c^{56}	$a^2b^2c^{56}$	a^2bc^{57}	$a^2b^2c^{57}$	a^3c^{57}	$a^2b^2c^{57}$	a^2bc^{58}	$a^2b^2c^{58}$	a^3c^{58}	$a^2b^2c^{58}$	a^2bc^{59}	$a^2b^2c^{59}$	a^3c^{59}	$a^2b^2c^{59}$	a^2bc^{60}	$a^2b^2c^{60}$	a^3c^{60}	$a^2b^2c^{60}$	a^2bc^{61}	$a^2b^2c^{61}$	a^3c^{61}	$a^2b^2c^{61}$	a^2bc^{62}	$a^2b^2c^{62}$	a^3c^{62}	$a^2b^2c^{62}$	a^2bc^{63}	$a^2b^2c^{63}$	a^3c^{63}	$a^2b^2c^{63}$	a^2bc^{64}	$a^2b^2c^{64}$	a^3c^{64}	$a^2b^2c^{64}$	a^2bc^{65}	$a^2b^2c^{65}$	a^3c^{65}	$a^2b^2c^{65}$	a^2bc^{66}	$a^2b^2c^{66}$	a^3c^{66}	$a^2b^2c^{66}$	a^2bc^{67}	$a^2b^2c^{67}$	a^3c^{67}	$a^2b^2c^{67}$	a^2bc^{68}	$a^2b^2c^{68}$	a^3c^{68}	$a^2b^2c^{68}$	a^2bc^{69}	$a^2b^2c^{69}$	a^3c^{69}	$a^2b^2c^{69}$	a^2bc^{70}	$a^2b^2c^{70}$	a^3c^{70}	$a^2b^2c^{70}$	a^2bc^{71}	$a^2b^2c^{71}$	a^3c^{71}	$a^2b^2c^{71}$	a^2bc^{72}	$a^2b^2c^{72}$	a^3c^{72}	$a^2b^2c^{72}$	a^2bc^{73}	$a^2b^2c^{73}$	a^3c^{73}	$a^2b^2c^{73}$	a^2bc^{74}	$a^2b^2c^{74}$	a^3c^{74}	$a^2b^2c^{74}$	a^2bc^{75}	$a^2b^2c^{75}$	a^3c^{75}	$a^2b^2c^{75}$	a^2bc^{76}	$a^2b^2c^{76}$	a^3c^{76}	$a^2b^2c^{76}$	a^2bc^{77}	$a^2b^2c^{77}$	a^3c^{77}	$a^2b^2c^{77}$	a^2bc^{78}	$a^2b^2c^{78}$	a^3c^{78}	$a^2b^2c^{78}$	a^2bc^{79}	$a^2b^2c^{79}$	a^3c^{79}	$a^2b^2c^{79}$	a^2bc^{80}	$a^2b^2c^{80}$	a^3c^{80}	$a^2b^2c^{80}$	a^2bc^{81}	$a^2b^2c^{81}$	a^3c^{81}	$a^2b^2c^{81}$	a^2bc^{82}	$a^2b^2c^{82}$	a^3c^{82}	$a^2b^2c^{82}$	a^2bc^{83}	$a^2b^2c^{83}$	a^3c^{83}	$a^2b^2c^{83}$	a^2bc^{84}	$a^2b^2c^{84}$	a^3c^{84}	$a^2b^2c^{84}$	a^2bc^{85}	$a^2b^2c^{85}$	a^3c^{85}	$a^2b^2c^{85}$	a^2bc^{86}	$a^2b^2c^{86}$	a^3c^{86}	$a^2b^2c^{86}$	a^2bc^{87}	$a^2b^2c^{87}$	a^3c^{87}	$a^2b^2c^{87}$	a^2bc^{88}	$a^2b^2c^{88}$	a^3c^{88}	$a^2b^2c^{88}$	a^2bc^{89}	$a^2b^2c^{89}$	a^3c^{89}	$a^2b^2c^{89}$	a^2bc^{90}	$a^2b^2c^{90}$	a^3c^{90}	$a^2b^2c^{90}$	a^2bc^{91}	$a^2b^2c^{91}$	a^3c^{91}	$a^2b^2c^{91}$	a^2bc^{92}	$a^2b^2c^{92}$	a^3c^{92}	$a^2b^2c^{92}$	a^2bc^{93}	$a^2b^2c^{93}$	a^3c^{93}	$a^2b^2c^{93}$	a^2bc^{94}	$a^2b^2c^{94}$	a^3c^{94}	$a^2b^2c^{94}$	a^2bc^{95}	$a^2b^2c^{95}$	a^3c^{95}	$a^2b^2c^{95}$	a^2bc^{96}	$a^2b^2c^{96}$	a^3c^{96}	$a^2b^2c^{96}$	a^2bc^{97}	$a^2b^2c^{97}$	a^3c^{97}	$a^2b^2c^{97}$	a^2bc^{98}	$a^2b^2c^{98}$	a^3c^{98}	$a^2b^2c^{98}$	a^2bc^{99}	$a^2b^2c^{99}$	a^3c^{99}	$a^2b^2c^{99}$	a^2bc^{100}	$a^2b^2c^{100}$	a^3c^{100}	$a^2b^2c^{100}$	a^2bc^{101}	$a^2b^2c^{101}$	a^3c^{101}	$a^2b^2c^{101}$	a^2bc^{102}	$a^2b^2c^{102}$	a^3c^{102}	$a^2b^2c^{102}$	a^2bc^{103}	$a^2b^2c^{103}$	a^3c^{103}	$a^2b^2c^{103}$	a^2bc^{104}	$a^2b^2c^{104}$	a^3c^{104}	$a^2b^2c^{104}$	a^2bc^{105}	$a^2b^2c^{105}$	a^3c^{105}	$a^2b^2c^{105}$	a^2bc^{106}	$a^2b^2c^{106}$	a^3c^{106}	$a^2b^2c^{106}$	a^2bc^{107}	$a^2b^2c^{107}$	a^3c^{107}	$a^2b^2c^{107}$	a^2bc^{108}	$a^2b^2c^{108}$	a^3c^{108}	$a^2b^2c^{108}$	a^2bc^{109}	$a^2b^2c^{109}$	a^3c^{109}	$a^2b^2c^{109}$	a^2bc^{110}	$a^2b^2c^{110}$	a^3c^{110}	$a^2b^2c^{110}$	a^2bc^{111}	$a^2b^2c^{111}$	a^3c^{111}	$a^2b^2c^{111}$	a^2bc^{112}	$a^2b^2c^{112}$	a^3c^{112}	$a^2b^2c^{112}$	a^2bc^{113}	$a^2b^2c^{113}$	a^3c^{113}	$a^2b^2c^{113}$	a^2bc^{114}	$a^2b^2c^{114}$	a^3c^{114}	$a^2b^2c^{114}$	a^2bc^{115}	$a^2b^2c^{115}$	a^3c^{115}	$a^2b^2c^{115}$	a^2bc^{116}	$a^2b^2c^{116}$	a^3c^{116}	$a^2b^2c^{116}$	a^2bc^{117}	$a^2b^2c^{117}$	a^3c^{117}	$a^2b^2c^{117}$	a^2bc^{118}	$a^2b^2c^{118}$	a^3c^{118}	$a^2b^2c^{118}$	a^2bc^{119}	$a^2b^2c^{119}$	a^3c^{119}	$a^2b^2c^{119}$	a^2bc^{120}	$a^2b^2c^{120}$	a^3c^{120}	$a^2b^2c^{120}$	a^2bc^{121}	$a^2b^2c^{121}$	a^3c^{121}	$a^2b^2c^{121}$	a^2bc^{122}	$a^2b^2c^{122}$	a^3c^{122}	$a^2b^2c^{122}$	a^2bc^{123}	$a^2b^2c^{123}$	a^3c^{123}	$a^2b^2c^{123}$	a^2bc^{124}	$a^2b^2c^{124}$	a^3c^{124}	$a^2b^2c^{124}$	a^2bc^{125}	$a^2b^2c^{125}$	a^3c^{125}	$a^2b^2c^{125}$	a^2bc^{126}	$a^2b^2c^{126}$	a^3c^{126}	$a^2b^2c^{126}$	a^2bc^{127}	$a^2b^2c^{127}$	a^3c^{127}	$a^2b^2c^{127}$	a^2bc^{128}	$a^2b^2c^{128}$	a^3c^{128}	$a^2b^2c^{128}$	a^2bc^{129}	$a^2b^2c^{129}$	a^3c^{129}	$a^2b^2c^{129}$	a^2bc^{130}	$a^2b^2c^{130}$	a^3c^{130}	$a^2b^2c^{130}$	a^2bc^{131}	$a^2b^2c^{131}$	a^3c^{131}	$a^2b^2c^{131}$	a^2bc^{132}	$a^2b^2c^{132}$	a^3c^{132}	$a^2b^2c^{132}$	a^2bc^{133}	$a^2b^2c^{133}$	a^3c^{133}	$a^2b^2c^{133}$	a^2bc^{134}	$a^2b^2c^{134}$	a^3c^{134}	$a^2b^2c^{134}$	a^2bc^{135}	$a^2b^2c^{135}$	a^3c^{135}	$a^2b^2c^{135}$	a^2bc^{136}	$a^2b^2c^{136}$	a^3c^{136}	$a^2b^2c^{136}$	a^2bc^{137}	$a^2b^2c^{137}$	a^3c^{137}	$a^2b^2c^{137}$	a^2bc^{138}	$a^2b^2c^{138}$	a^3c^{138}	$a^2b^2c^{138}$	a^2bc^{139}	$a^2b^2c^{139}$	a^3c^{139}	$a^2b^2c^{139}$	a^2bc^{140}	$a^2b^2c^{140}$	a^3c^{140}	$a^2b^2c^{140}$	a^2bc^{141}	$a^2b^2c^{141}$	a^3c^{141}	$a^2b^2c^{141}$	a^2bc^{142}	$a^2b^2c^{142}$	a^3c^{142}	$a^2b^2c^{142}$	a^2bc^{143}	$a^2b^2c^{143}$	a^3c^{143}	$a^2b^2c^{143}$	a^2bc^{144}	$a^2b^2c^{144}$	a^3c^{144}	$a^2b^2c^{144}$	a^2bc^{145}	$a^2b^2c^{145}$	a^3c^{145}	$a^2b^2c^{145}$	a^2bc^{146}	$a^2b^2c^{146}$	a^3c^{146}	$a^2b^2c^{146}$	a^2bc^{147}	$a^2b^2c^{147}$	a^3c^{147}	$a^2b^2c^{147}$	a^2bc^{148}	$a^2b^2c^{148}$	a^3c^{148}	$a^2b^2c^{148}$	a^2bc^{149}	$a^2b^2c^{149}$	a^3c^{149}	$a^2b^2c^{149}$	a^2bc^{150}	$a^2b^2c^{150}$	a^3c^{150}	$a^2b^2c^{150}$	a^2bc^{151}	$a^2b^2c^{151}$	a^3c^{151}	$a^2b^2c^{151}$	a^2bc^{152}	$a^2b^2c^{152}$	a^3c^{152}	$a^2b^2c^{152}$	a^2bc^{153}	$a^2b^2c^{153}$	a^3c^{153}	$a^2b^2c^{153}$	a^2bc^{154}	$a^2b^2c^{154}$	a^3c^{154}	$a^2b^2c^{154}$	a^2bc^{155}	$a^2b^2c^{155}$	a^3c^{155}	$a^2b^2c^{155}$	a^2bc^{156}	$a^2b^2c^{156}$	a^3c^{156}	$a^2b^2c^{156}$	a^2bc^{157}	$a^2b^2c^{157}$	a^3c^{157}	$a^2b^2c^{157}$	a^2bc^{158}	$a^2b^2c^{158}$	a^3c^{158}	$a^2b^2c^{158}$	a^2bc^{159}	$a^2b^2c^{159}$	a^3c^{159}	$a^2b^2c^{159}$	a^2bc^{160}	$a^2b^2c^{160}$	a^3c^{160}	$a^2b^2c^{160}$	a^2bc^{161}	$a^2b^2c^{161}$	a^3c^{161}	$a^2b^2c^{161}$	a^2bc^{162}	$a^2b^2c^{162}$	a^3c^{162}	$a^2b^2c^{162}$	a^2bc^{163}	$a^2b^2c^{163}$	a^3c^{163}	$a^2b^2c^{163}$	a^2bc^{164}	$a^2b^2c^{164}$	a^3c^{164}	$a^2b^2c^{164}$	a^2bc^{165}	$a^2b^2c^{165}$	a^3c^{165}	$a^2b^2c^{165}$	a^2bc^{166}	$a^2b^2c^{166}$	a^3c^{166}	$a^2b^2c^{166}$	a^2bc^{167}	$a^2b^2c^{167}$	a^3c^{167}	$a^2b^2c^{167}$	a^2bc^{168}	$a^2b^2c^{168}$	a^3c^{168}	$a^2b^2c^{168}$	a^2bc^{169}	$a^2b^2c^{169}$	a^3c^{169}	$a^2b^2c^{169}$	a^2bc^{170}	$a^2b^2c^{170}$	a
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	$2abc^2$	$2a^2c$	$2a^2b$	$2a^2$	$2c^2$	$2c$	$2b^2$	$2b$	$2a$
a^2be	-16	-480	+3072	+3072	+1728	-1536			
a^2bd	-480	+576	+3072	+3072	-3456				
a^2ad	+256	+3072	+3072	-3456					
abc^2	+1728	-3456	-4096						
b^2c	-1536								

	$2abc^2$	$2a^2c$	$2a^2b$	$2a^2$	$2c^2$	$2c$	$2b^2$	$2b$	$2a$
a^2ce	+72	-288	+192	+2304	-2592	-3072	+3456		
a^2cd	+192	+768	-256	+4096	0	+4096			
a^2ad	-288	+768	+768	-4608	-4608	+9216			
$abcd$	+2304	-4608	-4608	+3456					
b^2d	-3072	0	+4096						
ac^2	-2592	+3456							
b^2c^2	+3456								

	a^2d	abd	b^2c	cd^2	d^3
a^3	+80	+192	-4608	+1536	0
a^2b	+192	-4608	0	0	-4096
a^2c	-4608	0	0	0	-4096
ab^2	+1536	0	0	0	-4096
abc	-4608	0	0	0	-4096
acd	0	0	0	0	-4096
ad^2	0	0	0	0	-4096
d^3	0	0	0	0	-4096

	a^2e	ade	b^2c	cd^2	d^3
a^3	+6	-128	-128	-144	+384
a^2b	-128	+2560	0	+5184	-6192
a^2c	-144	0	0	-1536	-6192
ab^2	+384	+5184	-6192	-6192	+9216
abc	-144	0	0	-1536	-6192
acd	0	0	0	-1536	-6192
ad^2	0	0	0	-1536	-6192
d^3	0	0	0	-1536	-6192

				x^4	x^3	x^2	x	1
				$24x^2$	$24x$	24		
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	ae^2	ae^2	ae^2	ae^2	ae^2
ae^2	-16	-480	+256	+1728	-1536
bce^2	-480	+576	+3072	-3456	
b^2ce	+256	+3072	-3456		
ce^3	+1728	-3456			
ce^3	-1536				

	ae^2	ae^2	ae^2
ae^2	-48	+288	-256
bce^2	+288	-576	
b^2ce	-256		

	ae^2	ae^2
ae^2	-72	+96
b^2ce	+96	

	ae^2	ae^2
ae^2	-16	
ce^3	+1	

	ae^2	ae^2	ae^2	ae^2	ae^2
ae^2	-4	+64	+72	-384	+256
bce^2	+64	-256	-1152	+1536	
ce^3	+72	-1152	+1296		
ce^3	-384	+1536			
ce^3	+256				