Computations

$\bar{h} = 1$

1 S_2, char 2, τ trivial

1.1 Hilbert polynomial

$t^4 + 2t^3 + 2t^2 + 2t + 1 = (t+1)^2(t^2+1)$.

1.2 Generators

$x_0^2 + x_1^2$

x_0^4.

2 S_3, char 3, τ trivial

2.1 Hilbert polynomial

$t^{12} + 3t^{11} + 6t^{10} + 8t^9 + 9t^8 + 9t^7 + 9t^6 + 9t^5 + 9t^4 + 8t^3 + 6t^2 + 3t + 1 = (t^2+t+1)^3(t^6+t^3+1)$.

2.2 Generators

$x_0^3 + x_1^3 + x_2^3$

$((2c+2)/c)x_0^3$
$+ ((c+1)/c)x_1^3$
$- x_0^2x_1 - x_1^2x_2 - x_0x_2^2$
$+ x_0x_1^2 + x_0^2x_2 + x_1x_2^2$

x_0^9.

3 S_4, char 2, τ trivial

3.1 Hilbert polynomial

$t^6 + 4t^5 + 7t^4 + 8t^3 + 7t^2 + 4t + 1 = (t+1)^4(t^2+1)$.

3.2 Generators

$x_0^2 + x_1^2 + x_2^2 + x_3^2$

$((c+1)/c)x_0^2 + x_0x_1 + x_1x_2 + ((c+1)/c)x_2^2 + x_0x_3 + x_2x_3$

$((c+1)/c)x_0^2 + ((c+1)/c)x_1^2 + x_0x_2 + x_1x_2 + x_0x_3 + x_1x_3$

x_0^4.

4 S_5, char 5, τ trivial

4.1 Hilbert polynomial

PARTIAL

$1 + 5t + 15t^2 + 35t^3 + 70t^4 + 122t^5 + 190t^6 + 270t^7 + \dots$

4.2 Generators

PARTIAL

$x_0^5 + x_1^5 + x_2^5 + x_3^5 + x_4^5$

$((4c+4)/c)x_0^5$
$+ ((c+1)/c)x_3^5$
$+ x_0^4x_1 + x_0^4x_2 + x_1^4x_3 + x_2^4x_3 + x_0^4x_4 + x_3x_4^4$
$+ 2x_0^4x_3$
$+ 3x_0x_3^4$
$- x_0x_1^4 - x_0x_2^4 - x_1x_3^4 - x_2x_3^4 - x_3^4x_4 - x_0x_4^4$
$+ ((c+4)/(c+2))x_0^2x_1^3 + ((c+4)/(c+2))x_0^2x_2^3 + ((c+4)/(c+2))x_1^2x_3^3 + ((c+4)/(c+2))x_2^2x_3^3 + ((c+4)/(c+2))x_3^3x_4^2 + ((c+4)/(c+2))x_0^2x_4^3$
$+ ((2c+3)/(c+2))x_0^2x_3^3$
$+ ((3c+2)/(c+2))x_0^3x_3^2$
$+ ((4c+1)/(c+2))x_0^3x_1^2 + ((4c+1)/(c+2))x_0^3x_2^2 + ((4c+1)/(c+2))x_1^3x_3^2 + ((4c+1)/(c+2))x_2^3x_3^2 + ((4c+1)/(c+2))x_0^3x_4^2 + ((4c+1)/(c+2))x_3^2x_4^3$
$+ (c/(c+2))x_0x_1^3x_2 + (c/(c+2))x_0x_1x_2^3 + (c/(c+2))x_0x_1^3x_4 + (c/(c+2))x_0x_2^3x_4 + (c/(c+2))x_0x_1x_4^3 + (c/(c+2))x_0x_2x_4^3$
$+ (2c/(c+2))x_0^3x_1x_3 + (2c/(c+2))x_0^3x_2x_3 + (2c/(c+2))x_1x_2x_3^3 + (2c/(c+2))x_0^3x_3x_4 + (2c/(c+2))x_1x_3^3x_4 + (2c/(c+2))x_2x_3^3x_4$
$+ (3c/(c+2))x_0^3x_1x_2 + (3c/(c+2))x_0x_1x_3^3 + (3c/(c+2))x_0x_2x_3^3 + (3c/(c+2))x_0^3x_1x_4 + (3c/(c+2))x_0^3x_2x_4 + (3c/(c+2))x_0x_3^3x_4$
$+ (4c/(c+2))x_1^3x_2x_3 + (4c/(c+2))x_1x_2^3x_3 + (4c/(c+2))x_1^3x_3x_4 + (4c/(c+2))x_2^3x_3x_4 + (4c/(c+2))x_1x_3x_4^3 + (4c/(c+2))x_2x_3x_4^3$
$+ ((c^2+4c)/(c^2+1))x_1^2x_2^2x_3 + ((c^2+4c)/(c^2+1))x_0x_1^2x_3^2 + ((c^2+4c)/(c^2+1))x_0x_2^2x_3^2 + ((c^2+4c)/(c^2+1))x_1^2x_3x_4^2 + ((c^2+4c)/(c^2+1))x_2^2x_3x_4^2 + ((c^2+4c)/(c^2+1))x_0x_3^2x_4^2$
$+ ((2c^2+3c)/(c^2+1))x_1^2x_2x_3^2 + ((2c^2+3c)/(c^2+1))x_1x_2^2x_3^2 + ((2c^2+3c)/(c^2+1))x_1^2x_3^2x_4 + ((2c^2+3c)/(c^2+1))x_2^2x_3^2x_4 + ((2c^2+3c)/(c^2+1))x_1x_3^2x_4^2 + ((2c^2+3c)/(c^2+1))x_2x_3^2x_4^2$
$+ ((3c^2+2c)/(c^2+1))x_0^2x_1^2x_2 + ((3c^2+2c)/(c^2+1))x_0^2x_1x_2^2 + ((3c^2+2c)/(c^2+1))x_0^2x_1^2x_4 + ((3c^2+2c)/(c^2+$

$1))x_0^2x_2^2x_4 + ((3c^2+2c)/(c^2+1))x_0^2x_1x_4^2 + ((3c^2+2c)/(c^2+1))x_0^2x_2x_4^2$
$+ ((4c^2+c)/(c^2+1))x_0x_1^2x_2^2 + ((4c^2+c)/(c^2+1))x_0^2x_1^2x_3 + ((4c^2+c)/(c^2+1))x_0^2x_2^2x_3 + ((4c^2+c)/(c^2+$
$1))x_0x_1^2x_4^2 + ((4c^2+c)/(c^2+1))x_0x_2^2x_4^2 + ((4c^2+c)/(c^2+1))x_0^2x_3x_4^2$
$+ (c^2/(c^2+1))x_0^2x_1x_2x_4$
$+ (2c^2/(c^2+1))x_0x_1x_2x_3^2 + (2c^2/(c^2+1))x_1^2x_2x_3x_4 + (2c^2/(c^2+1))x_1x_2^2x_3x_4 + (2c^2/(c^2+1))x_0x_1x_3^2x_4 +$
$(2c^2/(c^2+1))x_0x_2x_3^2x_4 + (2c^2/(c^2+1))x_1x_2x_3x_4^2$
$+ (3c^2/(c^2+1))x_0^2x_1x_2x_3 + (3c^2/(c^2+1))x_0x_1^2x_2x_4 + (3c^2/(c^2+1))x_0x_1x_2^2x_4 + (3c^2/(c^2+1))x_0^2x_1x_3x_4 +$
$(3c^2/(c^2+1))x_0^2x_2x_3x_4 + (3c^2/(c^2+1))x_0x_1x_2x_4^2$
$+ (4c^2/(c^2+1))x_1x_2x_3^2x_4$

$((4c+4)/c)x_0^5+x_0^4x_1+((4c+1)/(c+2))x_0^3x_1^2+((c+4)/(c+2))x_0^2x_1^3-x_0x_1^4+2x_0^4x_2+(2c/(c+2))x_0^3x_1x_2+((4c^2+$
$c)/(c^2+1))x_0^2x_1^2x_2+x_1^4x_2+((3c+2)/(c+2))x_0^3x_2^2+((c^2+4c)/(c^2+1))x_0x_1^2x_2^2+((4c+1)/(c+2))x_1^3x_2^2+((2c+$
$3)/(c+2))x_0^2x_2^3+(3c/(c+2))x_0x_1x_2^3+((c+4)/(c+2))x_1^2x_2^3+3x_0x_2^4-x_1x_2^4+((c+1)/c)x_2^5+x_0^4x_3+(3c/(c+$
$2))x_0^3x_1x_3+((3c^2+2c)/(c^2+1))x_0^2x_1^2x_3+(c/(c+2))x_0x_1^3x_3+(2c/(c+2))x_0^3x_2x_3+(3c^2/(c^2+1))x_0^2x_1x_2x_3+$
$(4c/(c+2))x_1^3x_2x_3+(2c^2/(c^2+1))x_0x_1x_2^2x_3+((2c^2+3c)/(c^2+1))x_1^2x_2^2x_3+(3c/(c+2))x_0x_2^3x_3+(2c/(c+$
$2))x_1x_2^3x_3-x_2^4x_3+((4c+1)/(c+2))x_0^3x_3^2+((3c^2+2c)/(c^2+1))x_0^2x_1x_3^2+((4c^2+c)/(c^2+1))x_0x_1^2x_3^2+((4c^2+$
$c)/(c^2+1))x_0^2x_2x_3^2+((c^2+4c)/(c^2+1))x_1^2x_2x_3^2+((c^2+4c)/(c^2+1))x_0x_2^2x_3^2+((2c^2+3c)/(c^2+1))x_1x_2^2x_3^2+$
$((c+4)/(c+2))x_2^3x_3^2+((c+4)/(c+2))x_0^2x_3^3+(c/(c+2))x_0x_1x_3^3+(4c/(c+2))x_1x_2x_3^3+((4c+1)/(c+2))x_2^2x_3^3-$
$x_0x_3^4+x_2x_3^4+x_0^4x_4+(3c/(c+2))x_0^3x_1x_4+((3c^2+2c)/(c^2+1))x_0^2x_1^2x_4+(c/(c+2))x_0x_1^3x_4+(2c/(c+2))x_0^3x_2x_4+$
$(3c^2/(c^2+1))x_0^2x_1x_2x_4+(4c/(c+2))x_1^3x_2x_4+(2c^2/(c^2+1))x_0x_1x_2^2x_4+((2c^2+3c)/(c^2+1))x_1^2x_2^2x_4+(3c/(c+$
$2))x_0x_2^3x_4+(2c/(c+2))x_1x_2^3x_4-x_2^4x_4+(3c/(c+2))x_0^3x_3x_4+(c^2/(c^2+1))x_0^2x_1x_3x_4+(3c^2/(c^2+1))x_0x_1^2x_3x_4+$
$(3c^2/(c^2+1))x_0^2x_2x_3x_4+(2c^2/(c^2+1))x_1^2x_2x_3x_4+(2c^2/(c^2+1))x_0x_2^2x_3x_4+(4c^2/(c^2+1))x_1x_2^2x_3x_4+(2c/(c+$
$2))x_2^3x_3x_4+((3c^2+2c)/(c^2+1))x_0^2x_3^2x_4+(3c^2/(c^2+1))x_0x_1x_3^2x_4+(2c^2/(c^2+1))x_1x_2x_3^2x_4+((2c^2+3c)/(c^2+$
$1))x_2^2x_3^2x_4+(c/(c+2))x_0x_3^3x_4+(4c/(c+2))x_2x_3^3x_4+((4c+1)/(c+2))x_0^3x_4^2+((3c^2+2c)/(c^2+1))x_0^2x_1x_4^2+$
$((4c^2+c)/(c^2+1))x_0x_1^2x_4^2+((4c^2+c)/(c^2+1))x_0^2x_2x_4^2+((c^2+4c)/(c^2+1))x_1^2x_2x_4^2+((c^2+4c)/(c^2+$
$1))x_0x_2^2x_4^2+((2c^2+3c)/(c^2+1))x_1x_2^2x_4^2+((c+4)/(c+2))x_2^3x_4^2+((3c^2+2c)/(c^2+1))x_0^2x_3x_4^2+(3c^2/(c^2+$
$1))x_0x_1x_3x_4^2+(2c^2/(c^2+1))x_1x_2x_3x_4^2+((2c^2+3c)/(c^2+1))x_2^2x_3x_4^2+((4c^2+c)/(c^2+1))x_0x_3^2x_4^2+((c^2+$
$4c)/(c^2+1))x_2x_3^2x_4^2+((c+4)/(c+2))x_0^2x_4^3+(c/(c+2))x_0x_1x_4^3+(4c/(c+2))x_1x_2x_4^3+((4c+1)/(c+2))x_2^2x_4^3+$
$(c/(c+2))x_0x_3x_4^3+(4c/(c+2))x_2x_3x_4^3-x_0x_4^4+x_2x_4^4$

$((4c+4)/c)x_0^5+2x_0^4x_1+((3c+2)/(c+2))x_0^3x_1^2+((2c+3)/(c+2))x_0^2x_1^3+3x_0x_1^4+((c+1)/c)x_1^5+x_0^4x_2+(2c/(c+$
$2))x_0^3x_1x_2+(3c/(c+2))x_0x_1^3x_2-x_1^4x_2+((4c+1)/(c+2))x_0^3x_2^2+((4c^2+c)/(c^2+1))x_0^2x_1x_2^2+((c^2+4c)/(c^2+$
$1))x_0x_1^2x_2^2+((c+4)/(c+2))x_1^3x_2^2+((c+4)/(c+2))x_0^2x_2^3+((4c+1)/(c+2))x_1^2x_2^3-x_0x_2^4+x_1x_2^4+x_0^4x_3+(2c/(c+$
$2))x_0^3x_1x_3+(3c/(c+2))x_0x_1^3x_3-x_1^4x_3+(3c/(c+2))x_0^3x_2x_3+(3c^2/(c^2+1))x_0^2x_1x_2x_3+(2c^2/(c^2+1))x_0x_1^2x_2x_3+$
$(2c/(c+2))x_1^3x_2x_3+((3c^2+2c)/(c^2+1))x_0^2x_2^2x_3+((2c^2+3c)/(c^2+1))x_1^2x_2^2x_3+(c/(c+2))x_0x_2^3x_3+(4c/(c+$
$2))x_1x_2^3x_3+((4c+1)/(c+2))x_0^3x_3^2+((4c^2+c)/(c^2+1))x_0^2x_1x_3^2+((c^2+4c)/(c^2+1))x_0x_1^2x_3^2+((c+4)/(c+$
$2))x_1^3x_3^2+((3c^2+2c)/(c^2+1))x_0^2x_2x_3^2+((2c^2+3c)/(c^2+1))x_1^2x_2x_3^2+((4c^2+c)/(c^2+1))x_0x_2^2x_3^2+((c^2+4c)/(c^2+$
$1))x_1x_2^2x_3^2+((c+4)/(c+2))x_0^2x_3^3+((4c+1)/(c+2))x_1^2x_3^3+(c/(c+2))x_0x_2x_3^3+(4c/(c+2))x_1x_2x_3^3-x_0x_3^4+x_1x_3^4+$
$x_0^4x_4+(2c/(c+2))x_0^3x_1x_4+(3c/(c+2))x_0x_1^3x_4-x_1^4x_4+(3c/(c+2))x_0^3x_2x_4+(3c^2/(c^2+1))x_0^2x_1x_2x_4+(2c^2/(c^2+$
$1))x_0x_1^2x_2x_4+(2c/(c+2))x_1^3x_2x_4+((3c^2+2c)/(c^2+1))x_0^2x_2^2x_4+((2c^2+3c)/(c^2+1))x_1^2x_2^2x_4+(c/(c+2))x_0x_2^3x_4+$
$(4c/(c+2))x_1x_2^3x_4+(3c/(c+2))x_0^3x_3x_4+(3c^2/(c^2+1))x_0^2x_1x_3x_4+(2c^2/(c^2+1))x_0x_1^2x_3x_4+(2c/(c+2))x_1^3x_3x_4+$
$(c^2/(c^2+1))x_0^2x_2x_3x_4+(4c^2/(c^2+1))x_1^2x_2x_3x_4+(3c^2/(c^2+1))x_0x_2^2x_3x_4+(2c^2/(c^2+1))x_1x_2^2x_3x_4+((3c^2+$
$2c)/(c^2+1))x_0^2x_3^2x_4+((2c^2+3c)/(c^2+1))x_1^2x_3^2x_4+(3c^2/(c^2+1))x_0x_2x_3^2x_4+(2c^2/(c^2+1))x_1x_2x_3^2x_4+(c/(c+$
$2))x_0x_3^3x_4+(4c/(c+2))x_1x_3^3x_4+((4c+1)/(c+2))x_0^3x_4^2+((4c^2+c)/(c^2+1))x_0^2x_1x_4^2+((c^2+4c)/(c^2+1))x_0x_1^2x_4^2+$
$((c+4)/(c+2))x_1^3x_4^2+((3c^2+2c)/(c^2+1))x_0^2x_2x_4^2+((2c^2+3c)/(c^2+1))x_1^2x_2x_4^2+((4c^2+c)/(c^2+1))x_0x_2^2x_4^2+$
$((c^2+4c)/(c^2+1))x_1x_2^2x_4^2+((3c^2+2c)/(c^2+1))x_0^2x_3x_4^2+((2c^2+3c)/(c^2+1))x_1^2x_3x_4^2+(3c^2/(c^2+1))x_0x_2x_3x_4^2+$
$(2c^2/(c^2+1))x_1x_2x_3x_4^2+((4c^2+c)/(c^2+1))x_0x_3^2x_4^2+((c^2+4c)/(c^2+1))x_1x_3^2x_4^2+((c+4)/(c+2))x_0^2x_4^3+((4c+$
$1)/(c+2))x_1^2x_4^3+(c/(c+2))x_0x_2x_4^3+(4c/(c+2))x_1x_2x_4^3+(c/(c+2))x_0x_3x_4^3+(4c/(c+2))x_1x_3x_4^3-x_0x_4^4+x_1x_4^4$

conjecture: x_0^{25}

5 S_6, char 3, τ trivial

5.1 Hilbert polynomial

PARTIAL

$1 + 6t + 21t^2 + 51t^3 + 96t^4 + 147t^5 + 192t^6 + 222t^7 + \ldots$

5.2 Generators

PARTIAL

$x_0^3 + x_1^3 + x_2^3 + x_3^3 + x_4^3 + x_5^3$

$((2c+2)/c)x_0^3$
$+ ((c+1)/c)x_4^3$
$+ x_0^2x_1 + x_0^2x_2 + x_0^2x_3 + x_1^2x_4 + x_2^2x_4 + x_3^2x_4 + x_0x_4^2 + x_0^2x_5 + x_4x_5^2$
$- x_0x_1^2 - x_0x_2^2 - x_0x_3^2 - x_0^2x_4 - x_1x_4^2 - x_2x_4^2 - x_3x_4^2 - x_4^2x_5 - x_0x_5^2$
$+ (c/(c+2))x_0x_1x_2 + (c/(c+2))x_0x_1x_3 + (c/(c+2))x_0x_2x_3 + (c/(c+2))x_0x_1x_5 + (c/(c+2))x_0x_2x_5 + (c/(c+2))x_0x_3x_5$
$+ (2c/(c+2))x_1x_2x_4 + (2c/(c+2))x_1x_3x_4 + (2c/(c+2))x_2x_3x_4 + (2c/(c+2))x_1x_4x_5 + (2c/(c+2))x_2x_4x_5 + (2c/(c+2))x_3x_4x_5$

$((2c+2)/c)x_0^3$
$+ ((c+1)/c)x_3^3$
$+ x_0^2x_1 + x_0^2x_2 + x_1^2x_3 + x_2^2x_3 + x_0x_3^2 + x_0^2x_4 + x_3x_4^2 + x_0^2x_5 + x_3x_5^2$
$- x_0x_1^2 - x_0x_2^2 - x_0^2x_3 - x_1x_3^2 - x_2x_3^2 - x_3^2x_4 - x_0x_4^2 - x_3^2x_5 - x_0x_5^2$
$+ (c/(c+2))x_0x_1x_2 + (c/(c+2))x_0x_1x_4 + (c/(c+2))x_0x_2x_4 + (c/(c+2))x_0x_1x_5 + (c/(c+2))x_0x_2x_5 + (c/(c+2))x_0x_4x_5$
$+ (2c/(c+2))x_1x_2x_3 + (2c/(c+2))x_1x_3x_4 + (2c/(c+2))x_2x_3x_4 + (2c/(c+2))x_1x_3x_5 + (2c/(c+2))x_2x_3x_5 + (2c/(c+2))x_3x_4x_5$

$((2c+2)/c)x_0^3$
$+ ((c+1)/c)x_2^3$
$+ x_0^2x_1 + x_1^2x_2 + x_0x_2^2 + x_0^2x_3 + x_2x_3^2 + x_0^2x_4 + x_2x_4^2 + x_0^2x_5 + x_2x_5^2$
$- x_0x_1^2 - x_0^2x_2 - x_1x_2^2 - x_2^2x_3 - x_0x_3^2 - x_2^2x_4 - x_0x_4^2 - x_2^2x_5 - x_0x_5^2$
$+ (c/(c+2))x_0x_1x_3 + (c/(c+2))x_0x_1x_4 + (c/(c+2))x_0x_3x_4 + (c/(c+2))x_0x_1x_5 + (c/(c+2))x_0x_3x_5 + (c/(c+2))x_0x_4x_5$
$+ (2c/(c+2))x_1x_2x_3 + (2c/(c+2))x_1x_2x_4 + (2c/(c+2))x_2x_3x_4 + (2c/(c+2))x_1x_2x_5 + (2c/(c+2))x_2x_3x_5 + (2c/(c+2))x_2x_4x_5$

$((2c+2)/c)x_0^3$
$+ ((c+1)/c)x_1^3$
$- x_0^2x_1 - x_1^2x_2 - x_0x_2^2 - x_1^2x_3 - x_0x_3^2 - x_1^2x_4 - x_0x_4^2 - x_1^2x_5 - x_0x_5^2$
$+ x_0x_1^2 + x_0^2x_2 + x_1x_2^2 + x_0^2x_3 + x_1x_3^2 + x_0^2x_4 + x_1x_4^2 + x_0^2x_5 + x_1x_5^2$
$+ (c/(c+2))x_0x_2x_3 + (c/(c+2))x_0x_2x_4 + (c/(c+2))x_0x_3x_4 + (c/(c+2))x_0x_2x_5 + (c/(c+2))x_0x_3x_5 + (c/(c+2))x_0x_4x_5$
$+ (2c/(c+2))x_1x_2x_3 + (2c/(c+2))x_1x_2x_4 + (2c/(c+2))x_1x_3x_4 + (2c/(c+2))x_1x_2x_5 + (2c/(c+2))x_1x_3x_5 + (2c/(c+2))x_1x_4x_5$

conjecture: x_0^9.

5.3 $n-1$ case

6 S_6, char 2, τ trivial

6.1 Hilbert polynomial

$t^8+6t^7+16t^6+26t^5+30t^4+26t^3+16t^2+6t+1=(t+1)^6(t^2+1)$

6.2 Generators

$x_0^2+x_1^2+x_2^2+x_3^2+x_4^2+x_5^2$

$((c+1)/c)x_0^2+x_0x_1+x_0x_2+x_0x_3+x_1x_4+x_2x_4+x_3x_4+((c+1)/c)x_4^2+x_0x_5+x_4x_5$

$((c+1)/c)x_0^2+x_0x_1+x_0x_2+x_1x_3+x_2x_3+((c+1)/c)x_3^2+x_0x_4+x_3x_4+x_0x_5+x_3x_5$

$((c+1)/c)x_0^2+x_0x_1+x_1x_2+((c+1)/c)x_2^2+x_0x_3+x_2x_3+x_0x_4+x_2x_4+x_0x_5+x_2x_5$

$((c+1)/c)x_0^2+((c+1)/c)x_1^2+x_0x_2+x_1x_2+x_0x_3+x_1x_3+x_0x_4+x_1x_4+x_0x_5+x_1x_5$

x_0^4.

7 S_9, char 3, τ trivial

7.1 Hilbert polynomial

PARTIAL

$\cdots+157t^3+45t^2+9t+1$

7.2 Generators

PARTIAL

$x_0^3+x_1^3+x_2^3+x_3^3+x_4^3+x_5^3+x_6^3+x_7^3+x_8^3$

$((2c+2)/c)x_0^3$
$+((c+1)/c)x_7^3$
$+x_0^2x_1+x_0^2x_2+x_0^2x_3+x_0^2x_4+x_0^2x_5+x_0^2x_6+x_1^2x_7+x_2^2x_7+x_3^2x_7+x_4^2x_7+x_5^2x_7+x_6^2x_7+x_0x_7^2+x_0^2x_8+x_7x_8^2$
$-x_0x_1^2-x_0x_2^2-x_0x_3^2-x_0x_4^2-x_0x_5^2-x_0x_6^2-x_0^2x_7-x_1x_7^2-x_2x_7^2-x_3x_7^2-x_4x_7^2-x_5x_7^2-x_6x_7^2-x_7^2x_8-x_0x_8^2$
$+(c/(c+2))x_0x_1x_2+(c/(c+2))x_0x_1x_3+(c/(c+2))x_0x_2x_3+(c/(c+2))x_0x_1x_4+(c/(c+2))x_0x_2x_4+(c/(c+$

$$2))x_0x_3x_4+(c/(c+2))x_0x_1x_5+(c/(c+2))x_0x_2x_5+(c/(c+2))x_0x_3x_5+(c/(c+2))x_0x_4x_5+(c/(c+2))x_0x_1x_6+(c/(c+2))x_0x_2x_6+(c/(c+2))x_0x_3x_6+(c/(c+2))x_0x_4x_6+(c/(c+2))x_0x_5x_6+(c/(c+2))x_0x_1x_8+(c/(c+2))x_0x_2x_8+(c/(c+2))x_0x_3x_8+(c/(c+2))x_0x_4x_8+(c/(c+2))x_0x_5x_8+(c/(c+2))x_0x_6x_8$$

$$+(2c/(c+2))x_1x_2x_7+(2c/(c+2))x_1x_3x_7+(2c/(c+2))x_2x_3x_7+(2c/(c+2))x_1x_4x_7+(2c/(c+2))x_2x_4x_7+(2c/(c+2))x_3x_4x_7+(2c/(c+2))x_1x_5x_7+(2c/(c+2))x_2x_5x_7+(2c/(c+2))x_3x_5x_7+(2c/(c+2))x_4x_5x_7+(2c/(c+2))x_1x_6x_7+(2c/(c+2))x_2x_6x_7+(2c/(c+2))x_3x_6x_7+(2c/(c+2))x_4x_6x_7+(2c/(c+2))x_5x_6x_7+(2c/(c+2))x_1x_7x_8+(2c/(c+2))x_2x_7x_8+(2c/(c+2))x_3x_7x_8+(2c/(c+2))x_4x_7x_8+(2c/(c+2))x_5x_7x_8+(2c/(c+2))x_6x_7x_8$$

$$((2c+2)/c)x_0^3+x_0^2x_1-x_0x_1^2+x_0^2x_2+(c/(c+2))x_0x_1x_2-x_0x_2^2+x_0^2x_3+(c/(c+2))x_0x_1x_3+(c/(c+2))x_0x_2x_3-x_0x_3^2+x_0^2x_4+(c/(c+2))x_0x_1x_4+(c/(c+2))x_0x_2x_4+(c/(c+2))x_0x_3x_4-x_0x_4^2+x_0^2x_5+(c/(c+2))x_0x_1x_5+(c/(c+2))x_0x_2x_5+(c/(c+2))x_0x_3x_5+(c/(c+2))x_0x_4x_5-x_0x_5^2-x_0^2x_6+x_1^2x_6+(2c/(c+2))x_1x_2x_6+x_2^2x_6+(2c/(c+2))x_1x_3x_6+(2c/(c+2))x_2x_3x_6+x_3^2x_6+(2c/(c+2))x_1x_4x_6+(2c/(c+2))x_2x_4x_6+(2c/(c+2))x_3x_4x_6+x_4^2x_6+(2c/(c+2))x_1x_5x_6+(2c/(c+2))x_2x_5x_6+(2c/(c+2))x_3x_5x_6+(2c/(c+2))x_4x_5x_6+x_5^2x_6+x_0x_6^2-x_1x_6^2-x_2x_6^2-x_3x_6^2-x_4x_6^2-x_5x_6^2+((c+1)/c)x_6^3+x_0^2x_7+(c/(c+2))x_0x_1x_7+(c/(c+2))x_0x_2x_7+(c/(c+2))x_0x_3x_7+(c/(c+2))x_0x_4x_7+(c/(c+2))x_0x_5x_7+(2c/(c+2))x_1x_6x_7+(2c/(c+2))x_2x_6x_7+(2c/(c+2))x_3x_6x_7+(2c/(c+2))x_4x_6x_7+(2c/(c+2))x_5x_6x_7-x_6^2x_7-x_0x_7^2+x_6x_7^2+x_0^2x_8+(c/(c+2))x_0x_1x_8+(c/(c+2))x_0x_2x_8+(c/(c+2))x_0x_3x_8+(c/(c+2))x_0x_4x_8+(c/(c+2))x_0x_5x_8+(2c/(c+2))x_1x_6x_8+(2c/(c+2))x_2x_6x_8+(2c/(c+2))x_3x_6x_8+(2c/(c+2))x_4x_6x_8+(2c/(c+2))x_5x_6x_8-x_6^2x_8+(c/(c+2))x_0x_7x_8+(2c/(c+2))x_6x_7x_8-x_0x_8^2+x_6x_8^2$$

$$((2c+2)/c)x_0^3+x_0^2x_1-x_0x_1^2+x_0^2x_2+(c/(c+2))x_0x_1x_2-x_0x_2^2+x_0^2x_3+(c/(c+2))x_0x_1x_3+(c/(c+2))x_0x_2x_3-x_0x_3^2+x_0^2x_4+(c/(c+2))x_0x_1x_4+(c/(c+2))x_0x_2x_4+(c/(c+2))x_0x_3x_4-x_0x_4^2-x_0^2x_5+x_1^2x_5+(2c/(c+2))x_1x_2x_5+x_2^2x_5+(2c/(c+2))x_1x_3x_5+(2c/(c+2))x_2x_3x_5+x_3^2x_5+(2c/(c+2))x_1x_4x_5+(2c/(c+2))x_2x_4x_5+(2c/(c+2))x_3x_4x_5+x_4^2x_5+x_0x_5^2-x_1x_5^2-x_2x_5^2-x_3x_5^2-x_4x_5^2+((c+1)/c)x_5^3+x_0^2x_6+(c/(c+2))x_0x_1x_6+(c/(c+2))x_0x_2x_6+(c/(c+2))x_0x_3x_6+(c/(c+2))x_0x_4x_6+(2c/(c+2))x_1x_5x_6+(2c/(c+2))x_2x_5x_6+(2c/(c+2))x_3x_5x_6+(2c/(c+2))x_4x_5x_6-x_5^2x_6-x_0x_6^2+x_5x_6^2+x_0^2x_7+(c/(c+2))x_0x_1x_7+(c/(c+2))x_0x_2x_7+(c/(c+2))x_0x_3x_7+(c/(c+2))x_0x_4x_7+(2c/(c+2))x_1x_5x_7+(2c/(c+2))x_2x_5x_7+(2c/(c+2))x_3x_5x_7+(2c/(c+2))x_4x_5x_7-x_5^2x_7+(c/(c+2))x_0x_6x_7+(2c/(c+2))x_5x_6x_7-x_0x_7^2+x_5x_7^2+x_0^2x_8+(c/(c+2))x_0x_1x_8+(c/(c+2))x_0x_2x_8+(c/(c+2))x_0x_3x_8+(c/(c+2))x_0x_4x_8+(2c/(c+2))x_1x_5x_8+(2c/(c+2))x_2x_5x_8+(2c/(c+2))x_3x_5x_8+(2c/(c+2))x_4x_5x_8-x_5^2x_8+(c/(c+2))x_0x_6x_8+(2c/(c+2))x_5x_6x_8+(c/(c+2))x_0x_7x_8+(2c/(c+2))x_5x_7x_8-x_0x_8^2+x_5x_8^2$$

$$((2c+2)/c)x_0^3+x_0^2x_1-x_0x_1^2+x_0^2x_2+(c/(c+2))x_0x_1x_2-x_0x_2^2+x_0^2x_3+(c/(c+2))x_0x_1x_3+(c/(c+2))x_0x_2x_3-x_0x_3^2-x_0^2x_4+x_1^2x_4+(2c/(c+2))x_1x_2x_4+x_2^2x_4+(2c/(c+2))x_1x_3x_4+(2c/(c+2))x_2x_3x_4+x_3^2x_4+x_0x_4^2-x_1x_4^2-x_2x_4^2-x_3x_4^2+((c+1)/c)x_4^3+x_0^2x_5+(c/(c+2))x_0x_1x_5+(c/(c+2))x_0x_2x_5+(c/(c+2))x_0x_3x_5+(2c/(c+2))x_1x_4x_5+(2c/(c+2))x_2x_4x_5+(2c/(c+2))x_3x_4x_5-x_4^2x_5-x_0x_5^2+x_4x_5^2+x_0^2x_6+(c/(c+2))x_0x_1x_6+(c/(c+2))x_0x_2x_6+(c/(c+2))x_0x_3x_6+(2c/(c+2))x_1x_4x_6+(2c/(c+2))x_2x_4x_6+(2c/(c+2))x_3x_4x_6-x_4^2x_6+(c/(c+2))x_0x_5x_6+(2c/(c+2))x_4x_5x_6-x_0x_6^2+x_4x_6^2+x_0^2x_7+(c/(c+2))x_0x_1x_7+(c/(c+2))x_0x_2x_7+(c/(c+2))x_0x_3x_7+(2c/(c+2))x_1x_4x_7+(2c/(c+2))x_2x_4x_7+(2c/(c+2))x_3x_4x_7-x_4^2x_7+(c/(c+2))x_0x_5x_7+(2c/(c+2))x_4x_5x_7+(c/(c+2))x_0x_6x_7+(2c/(c+2))x_4x_6x_7-x_0x_7^2+x_4x_7^2+x_0^2x_8+(c/(c+2))x_0x_1x_8+(c/(c+2))x_0x_2x_8+(c/(c+2))x_0x_3x_8+(2c/(c+2))x_1x_4x_8+(2c/(c+2))x_2x_4x_8+(2c/(c+2))x_3x_4x_8-x_4^2x_8+(c/(c+2))x_0x_5x_8+(2c/(c+2))x_4x_5x_8+(c/(c+2))x_0x_6x_8+(2c/(c+2))x_4x_6x_8+(c/(c+2))x_0x_7x_8+(2c/(c+2))x_4x_7x_8-x_0x_8^2+x_4x_8^2$$

$$((2c+2)/c)x_0^3+x_0^2x_1-x_0x_1^2+x_0^2x_2+(c/(c+2))x_0x_1x_2-x_0x_2^2-x_0^2x_3+x_1^2x_3+(2c/(c+2))x_1x_2x_3+x_2^2x_3+x_0x_3^2-x_1x_3^2-x_2x_3^2+((c+1)/c)x_3^3+x_0^2x_4+(c/(c+2))x_0x_1x_4+(c/(c+2))x_0x_2x_4+(2c/(c+2))x_1x_3x_4+(2c/(c+2))x_2x_3x_4-x_3^2x_4-x_0x_4^2+x_3x_4^2+x_0^2x_5+(c/(c+2))x_0x_1x_5+(c/(c+2))x_0x_2x_5+(2c/(c+2))x_1x_3x_5+(2c/(c+2))x_2x_3x_5-x_3^2x_5+(c/(c+2))x_0x_4x_5+(2c/(c+2))x_3x_4x_5-x_0x_5^2+x_3x_5^2+x_0^2x_6+(c/(c+2))x_0x_1x_6+(c/(c+2))x_0x_2x_6+(2c/(c+2))x_1x_3x_6+(2c/(c+2))x_2x_3x_6-x_3^2x_6+(c/(c+2))x_0x_4x_6+(2c/(c+2))x_3x_4x_6+(c/(c+2))x_0x_5x_6+(2c/(c+2))x_3x_5x_6-x_0x_6^2+x_3x_6^2+x_0^2x_7+(c/(c+2))x_0x_1x_7+(c/(c+2))x_0x_2x_7+(2c/(c+2))x_1x_3x_7+(2c/(c+2))x_2x_3x_7-x_3^2x_7+(c/(c+2))x_0x_4x_7+(2c/(c+2))x_3x_4x_7+(c/(c+2))x_0x_5x_7+(2c/(c+2))x_3x_5x_7+(c/(c+2))x_0x_6x_7+(2c/(c+2))x_3x_6x_7-x_0x_7^2+x_3x_7^2+x_0^2x_8+(c/(c+2))x_0x_1x_8+(c/(c+2))x_0x_2x_8+(2c/(c+2))x_1x_3x_8+(2c/(c+2))x_2x_3x_8-x_3^2x_8+(c/(c+2))x_0x_4x_8+(2c/(c+2))x_3x_4x_8+(c/(c+2))x_0x_5x_8+(2c/(c+2))x_3x_5x_8+(c/(c+2))x_0x_6x_8+(2c/(c+2))x_3x_6x_8+(c/(c+2))x_0x_7x_8+(2c/(c+2))x_3x_7x_8-x_0x_8^2+x_3x_8^2$$

$$((2c+2)/c)x_0^3+x_0^2x_1-x_0x_1^2-x_0^2x_2+x_1^2x_2+x_0x_2^2-x_1x_2^2+((c+1)/c)x_2^3+x_0^2x_3+(c/(c+2))x_0x_1x_3+(2c/(c+2))x_1x_2x_3-x_2^2x_3-x_0x_3^2+x_2x_3^2+x_0^2x_4+(c/(c+2))x_0x_1x_4+(2c/(c+2))x_1x_2x_4-x_2^2x_4+(c/(c+2))x_0x_3x_4+(2c/(c+2))x_2x_3x_4-x_0x_4^2+x_2x_4^2+x_0^2x_5+(c/(c+2))x_0x_1x_5+(2c/(c+2))x_1x_2x_5-x_2^2x_5+(c/(c+2))x_0x_3x_5+(2c/(c+2))x_2x_3x_5+(c/(c+2))x_0x_4x_5+(2c/(c+2))x_2x_4x_5-x_0x_5^2+x_2x_5^2+x_0^2x_6+(c/(c+2))x_0x_1x_6+(2c/(c+2))x_1x_2x_6-x_2^2x_6+(c/(c+2))x_0x_3x_6+(2c/(c+2))x_2x_3x_6+(c/(c+2))x_0x_4x_6+(2c/(c+2))x_2x_4x_6+(c/(c+2))x_0x_5x_6+(2c/(c+2))x_2x_5x_6-x_0x_6^2+x_2x_6^2+x_0^2x_7+(c/(c+2))x_0x_1x_7+(2c/(c+2))x_1x_2x_7-x_2^2x_7+(c/(c+2))x_0x_3x_7+(2c/(c+2))x_2x_3x_7+(c/(c+2))x_0x_4x_7+(2c/(c+2))x_2x_4x_7+(c/(c+2))x_0x_5x_7+(2c/(c+2))x_2x_5x_7+(c/(c+2))x_0x_6x_7+(2c/(c+2))x_2x_6x_7-x_0x_7^2+x_2x_7^2+x_0^2x_8+(c/(c+2))x_0x_1x_8+(2c/(c+2))x_1x_2x_8-x_2^2x_8+(c/(c+2))x_0x_3x_8+(2c/(c+2))x_2x_3x_8+(c/(c+2))x_0x_4x_8+(2c/(c+2))x_2x_4x_8+(c/(c+2))x_0x_5x_8+(2c/(c+2))x_2x_5x_8+(c/(c+2))x_0x_6x_8+(2c/(c+2))x_2x_6x_8+(c/(c+2))x_0x_7x_8+(2c/(c+2))x_2x_7x_8-x_0x_8^2+x_2x_8^2$$

$$((2c+2)/c)x_0^3-x_0^2x_1+x_0x_1^2+((c+1)/c)x_1^3+x_0^2x_2-x_1^2x_2-x_0x_2^2+x_1x_2^2+x_0^2x_3-x_1^2x_3+(c/(c+2))x_0x_2x_3+(2c/(c+2))x_1x_2x_3-x_0x_3^2+x_1x_3^2+x_0^2x_4-x_1^2x_4+(c/(c+2))x_0x_2x_4+(2c/(c+2))x_1x_2x_4+(c/(c+2))x_0x_3x_4+(2c/(c+2))x_1x_3x_4-x_0x_4^2+x_1x_4^2+x_0^2x_5-x_1^2x_5+(c/(c+2))x_0x_2x_5+(2c/(c+2))x_1x_2x_5+(c/(c+2))x_0x_3x_5+(2c/(c+2))x_1x_3x_5+(c/(c+2))x_0x_4x_5+(2c/(c+2))x_1x_4x_5-x_0x_5^2+x_1x_5^2+x_0^2x_6-x_1^2x_6+(c/(c+2))x_0x_2x_6+(2c/(c+2))x_1x_2x_6+(c/(c+2))x_0x_3x_6+(2c/(c+2))x_1x_3x_6+(c/(c+2))x_0x_4x_6+(2c/(c+2))x_1x_4x_6+(c/(c+2))x_0x_5x_6+(2c/(c+2))x_1x_5x_6-x_0x_6^2+x_1x_6^2+x_0^2x_7-x_1^2x_7+(c/(c+2))x_0x_2x_7+(2c/(c+2))x_1x_2x_7+(c/(c+2))x_0x_3x_7+(2c/(c+2))x_1x_3x_7+(c/(c+2))x_0x_4x_7+(2c/(c+2))x_1x_4x_7+(c/(c+2))x_0x_5x_7+(2c/(c+2))x_1x_5x_7+(c/(c+2))x_0x_6x_7+(2c/(c+2))x_1x_6x_7-x_0x_7^2+x_1x_7^2+x_0^2x_8-x_1^2x_8+(c/(c+2))x_0x_2x_8+(2c/(c+2))x_1x_2x_8+(c/(c+2))x_0x_3x_8+(2c/(c+2))x_1x_3x_8+(c/(c+2))x_0x_4x_8+(2c/(c+2))x_1x_4x_8+(c/(c+2))x_0x_5x_8+(2c/(c+2))x_1x_5x_8+(c/(c+2))x_0x_6x_8+(2c/(c+2))x_1x_6x_8+(c/(c+2))x_0x_7x_8+(2c/(c+2))x_1x_7x_8-x_0x_8^2+x_1x_8^2$$

conjecture: x_0^9

8 S_4, char 3, τ trivial

8.1 Polynomial

$(t+1)^2(t^4+t^2+1)^2(t^2+t+1)^2(t^6+t^3+1)$

8.2 Generators

$x_0^3+x_1^3+x_2^3+x_3^3$

$$((2c+2)/c)x_0^6-x_0^5x_1+x_0^4x_1^2-x_0^2x_1^4+x_0x_1^5+((c+1)/c)x_1^6+x_0^5x_2+x_0^3x_1^2x_2-x_0^2x_1^3x_2-x_1^5x_2-x_0^4x_2^2-x_0^3x_1x_2^2+x_0x_1^3x_2^2+x_1^4x_2^2+((c+1)/c)x_0^3x_2^3+x_0^2x_1x_2^3-x_0x_1^2x_2^3+((2c+2)/c)x_1^3x_2^3+x_0^2x_2^4-x_1^2x_2^4-x_0x_2^5+x_1x_2^5+x_0^3x_1^2x_3-x_0^2x_1^3x_3-x_0^3x_2^2x_3+x_1^3x_2^2x_3+x_0^2x_2^3x_3-x_1^2x_2^3x_3-x_0^3x_1x_3^2+x_0x_1^3x_3^2+x_0^3x_2x_3^2-x_1^3x_2x_3^2-x_0x_2^3x_3^2+x_1x_2^3x_3^2$$

$x_0^6+x_0^3x_1^3+x_1^6+x_0^3x_2^3+x_1^3x_2^3+x_2^6$

$x_0^9+x_0^6x_1^3+x_0^3x_1^6+x_1^9$

9 S_4, char 3, τ trivial, $n-1$ representation

9.1 Polynomial

$(t+1)^2(t^4+t^2+1)^2(t^2+t+1)(t^6+t^3+1)$

9.2 Generators

$x_0^3x_1^3 + x_0^3x_2^3 + x_1^3x_2^3$

$((2c+2)/c)x_0^3x_1^3 - x_0^3x_1^2x_2 + x_0^2x_1^3x_2 + x_0^3x_1x_2^2 - x_0x_1^3x_2^2 + ((c+1)/c)x_0^3x_2^3 - x_0^2x_1x_2^3 + x_0x_1^2x_2^3$

$x_0^9 + (c^2+2)x_0^6x_1^3 + cx_0^5x_1^4 + (2c^2+2c)x_0^4x_1^5 + x_1^9 + (2c^2+c)x_0^6x_1^2x_2 + (2c^2+2c)x_0^5x_1^3x_2 + c^2x_0^4x_1^4x_2 + c^2x_0^3x_1^5x_2 + (c^2+2c)x_0^6x_1x_2^2 + 2c^2x_0^5x_1^2x_2^2 + cx_0^4x_1^3x_2^2 + c^2x_0^3x_1^4x_2^2 + 2c^2x_0^2x_1^5x_2^2 + x_2^9$

10 S_7, char 3, τ trivial

10.1 Polynomial

PARTIAL

$434t^5 + 203t^4 + 83t^3 + 28t^2 + 7t + 1$

10.2 Generators

PARTIAL

$x_0^3 + x_1^3 + x_2^3 + x_3^3 + x_4^3 + x_5^3 + x_6^3$

11 S_7, char 3, τ trivial, $n-1$ representation

11.1 Generators

$x_0^3x_1^3 + x_0^3x_2^3 + x_1^3x_2^3 + x_0^3x_3^3 + x_1^3x_3^3 + x_2^3x_3^3 + x_0^3x_4^3 + x_1^3x_4^3 + x_2^3x_4^3 + x_3^3x_4^3 + x_0^3x_5^3 + x_1^3x_5^3 + x_2^3x_5^3 + x_3^3x_5^3 + x_4^3x_5^3$

$((2c+2)/c)x_0^3x_1^3 + x_0^3x_1^2x_2 + x_0^2x_1^3x_2 - x_0^3x_1x_2^2 + (c/(c+2))x_0^2x_1^2x_2^2 - x_0x_1^3x_2^2 + (2c/(c+2))x_0^3x_1^2x_3 + (2c/(c+2))x_0^2x_1^3x_3 + (c/(c^2+c+1))x_0^3x_1x_2x_3 + ((2c^3+2c)/(c^3+2))x_0^2x_1^2x_2x_3 + (c/(c^2+c+1))x_0x_1^3x_2x_3 + ((c+1)/(c+2))x_0^3x_2^2x_3 + ((2c^2+2c)/(c^3+2))x_0^2x_1x_2^2x_3 + ((2c^2+2c)/(c^3+2))x_0x_1^2x_2^2x_3 + ((c+1)/(c+2))x_1^3x_2^2x_3 + ((c+1)/(c+2))x_0^2x_2^3x_3 + ((2c^2+2c)/(c^2+c+1))x_0x_1x_2^3x_3 + ((c+1)/(c+2))x_1^2x_2^3x_3 + (c/(c+2))x_0^3x_1x_3^2 + (2c^2/(c^2+c+1))x_0^2x_1^2x_3^2 + (c/(c+2))x_0x_1^3x_3^2 + ((2c+2)/(c+2))x_0^3x_2x_3^2 + ((2c^3+c^2+2c)/(c^3+2))x_0^2x_1x_2x_3^2 + ((2c^3+c^2+2c)/(c^3+2))x_0x_1^2x_2x_3^2 + ((2c+2)/(c+2))x_1^3x_2x_3^2 + ((c^2+c)/(c^2+c+1))x_0^2x_2^2x_3^2 + (2c/(c^3+2))x_0x_1x_2^2x_3^2 + ((c^2+c)/(c^2+c+1))x_1^2x_2^2x_3^2 + ((2c+2)/(c+2))x_0x_2^3x_3^2 + ((2c+2)/(c+2))x_1x_2^3x_3^2 + ((c^2+2c+1)/(c^2+2c))x_0^3x_3^3 + ((c^2+2c+1)/(c^2+2c))x_1^3x_3^3 + ((c^2+2c+1)/(c^2+2c))x_2^3x_3^3 + x_0^3x_1^2x_4 + x_0^2x_1^3x_4 + (c/(c+2))x_0^3x_1x_2x_4 + (c/(c^2+c+1))x_0^2x_1^2x_2x_4 + (c/(c+2))x_0x_1^3x_2x_4 + ((c^2+c)/(c^2+c+1))x_0^2x_1x_2^2x_4 + ((c^2+c)/(c^2+c+1))x_0x_1^2x_2^2x_4 + (c/(c^2+c+1))x_0^3x_1x_3x_4 + (c^3/(c^3+2))x_0^2x_1^2x_3x_4 + (c/(c^2+c+1))x_0x_1^3x_3x_4 + ((2c^2+2c)/(c^2+c+1))x_0^3x_2x_3x_4 + ((c^3+c^2)/(c^3+2))x_0^2x_1x_2x_3x_4 + ((c^3+c^2)/(c^3+2))x_0x_1^2x_2x_3x_4 + ((2c^2+2c)/(c^2+c+1))x_1^3x_2x_3x_4 + ((c^3+2c^2+c)/(c^3+2))x_0^2x_2^2x_3x_4 + (2c^3/(c^3+2))x_0x_1x_2^2x_3x_4 + ((c^3+2c^2+c)/(c^3+2))x_1^2x_2^2x_3x_4 + ((2c^2+2c)/(c^2+c+1))x_0x_2^3x_3x_4 + ((2c^2+2c)/(c^2+c+1))x_1x_2^3x_3x_4 + ((2c+2)/(c+2))x_0^3x_3^2x_4 + ((2c+2)/(c+2))x_1^3x_3^2x_4 + ((2c^2+2c)/(c^2+c+1))x_0^2x_2x_3^2x_4 + (c^2/(c^2+c+1))x_0x_1x_2x_3^2x_4 + ((2c^2+2c)/(c^2+c+1))x_1^2x_2x_3^2x_4 + ((2c^2+2c)/(c^2+c+1))x_0x_2^2x_3^2x_4 + ((2c^2+2c)/(c^2+c+1))x_1x_2^2x_3^2x_4 + ((2c+2)/(c+2))x_2^3x_3^2x_4 + ((2c+2)/(c+2))x_0^2x_3^3x_4 + ((c^2+c)/(c^2+c+1))x_0x_1x_3^3x_4 + ((2c+2)/(c+2))x_1^2x_3^3x_4 + ((c^2+c)/(c^2+c+1))x_0x_2x_3^3x_4 + ((c^2+c)/(c^2+c+1))x_1x_2x_3^3x_4 + ((2c+2)/(c+2))x_2^2x_3^3x_4 - x_0^3x_1x_4^2 + (c/(c+2))x_0^2x_1^2x_4^2 - x_0x_1^3x_4^2 + ((c^2+c)/(c^2+c+1))x_0^2x_1x_2x_4^2 + ((c^2+c)/(c^2+c+$

$1))x_0x_1^2x_2x_4^2+(2c/(c+2))x_0x_1x_2^2x_4^2+((c+1)/(c+2))x_0^3x_3x_4^2+((c^3+c^2)/(c^3+2))x_0^2x_1x_3x_4^2+((c^3+c^2)/(c^3+$
$2))x_0x_1^2x_3x_4^2+((c+1)/(c+2))x_1^3x_3x_4^2+((c^2+c)/(c^3+2))x_0^2x_2x_3x_4^2+(c^2/(c^2+c+1))x_0x_1x_2x_3x_4^2+((c^2+c)/(c^3+$
$2))x_1^2x_2x_3x_4^2+((c^2+c)/(c^3+2))x_0x_2^2x_3x_4^2+((c^2+c)/(c^3+2))x_1x_2^2x_3x_4^2+((c+1)/(c+2))x_2^3x_3x_4^2+((2c^2+2c)/(c^2+$
$c+1))x_0^2x_3^2x_4^2+(c^2/(c^3+2))x_0x_1x_3^2x_4^2+((2c^2+2c)/(c^2+c+1))x_1^2x_3^2x_4^2+((c^3+2c^2+c)/(c^3+2))x_0x_2x_3^2x_4^2+((c^3+$
$2c^2+c)/(c^3+2))x_1x_2x_3^2x_4^2+((2c^2+2c)/(c^2+c+1))x_2^2x_3^2x_4^2+((c+1)/(c+2))x_0x_3^3x_4^2+((c+1)/(c+2))x_1x_3^3x_4^2+$
$((c+1)/(c+2))x_2x_3^3x_4^2+x_0^3x_1^2x_5+x_0^2x_1^3x_5+(c/(c+2))x_0^3x_1x_2x_5+(c/(c^2+c+1))x_0^2x_1^2x_2x_5+(c/(c+2))x_0x_1^3x_2x_5+$
$((c^2+c)/(c^2+c+1))x_0^2x_1x_2^2x_5+((c^2+c)/(c^2+c+1))x_0x_1^2x_2^2x_5+(c/(c^2+c+1))x_0^3x_1x_3x_5+((2c^3+c^2+c)/(c^3+$
$2))x_0^2x_1^2x_3x_5 + (c/(c^2 + c + 1))x_0x_1^3x_3x_5 + ((2c^2 + 2c)/(c^2 + c + 1))x_0^3x_2x_3x_5 + (2c^2/(c^3 + 2))x_0^2x_1x_2x_3x_5 +$
$(2c^2/(c^3+2))x_0x_1^2x_2x_3x_5+((2c^2+2c)/(c^2+c+1))x_1^3x_2x_3x_5+((2c^3+2c)/(c^3+2))x_0^2x_2^2x_3x_5+((c^3+c^2)/(c^3+$
$2))x_0x_1x_2^2x_3x_5 + ((2c^3 + 2c)/(c^3 + 2))x_1^2x_2^2x_3x_5 + ((2c^2 + 2c)/(c^2 + c + 1))x_0x_2^3x_3x_5 + ((2c^2 + 2c)/(c^2 + c +$
$1))x_1x_2^3x_3x_5+((2c+2)/(c+2))x_0^3x_3^2x_5+((2c^2+2c)/(c^2+c+1))x_0^2x_1x_3^2x_5+((2c^2+2c)/(c^2+c+1))x_0x_1^2x_3^2x_5+$
$((2c+2)/(c+2))x_1^3x_3^2x_5 + ((c^2+c)/(c^2+c+1))x_0^2x_2x_3^2x_5 + (c^2/(c^2+c+1))x_0x_1x_2x_3^2x_5 + ((c^2+c)/(c^2+c+$
$1))x_1^2x_2x_3^2x_5+((c^2+c)/(c^2+c+1))x_0x_2^2x_3^2x_5+((c^2+c)/(c^2+c+1))x_1x_2^2x_3^2x_5+((2c+2)/(c+2))x_2^3x_3^2x_5+(1/(c+$
$2))x_0^2x_3^3x_5+(2c/(c^2+c+1))x_0x_1x_3^3x_5+(1/(c+2))x_1^2x_3^3x_5+(2c/(c^2+c+1))x_0x_2x_3^3x_5+(2c/(c^2+c+1))x_1x_2x_3^3x_5+$
$(1/(c+2))x_2^2x_3^3x_5 + (c/(c+2))x_0^3x_1x_4x_5 + (c/(c^2 + c + 1))x_0^2x_1^2x_4x_5 + (c/(c+2))x_0x_1^3x_4x_5 + (c^2/(c^2 + c +$
$1))x_0x_1x_2^2x_4x_5+((2c^2+2c)/(c^2+c+1))x_0^3x_3x_4x_5+(c^3/(c^3+2))x_0^2x_1x_3x_4x_5+(c^3/(c^3+2))x_0x_1^2x_3x_4x_5+((2c^2+$
$2c)/(c^2+c+1))x_1^3x_3x_4x_5 + (c^3/(c^3+2))x_0^2x_2x_3x_4x_5 + (c^3/(c^3+2))x_1^2x_2x_3x_4x_5 + (c^3/(c^3+2))x_0x_2^2x_3x_4x_5 +$
$(c^3/(c^3+2))x_1x_2^2x_3x_4x_5 + ((2c^2+2c)/(c^2+c+1))x_2^3x_3x_4x_5 + ((2c^3+2c^2)/(c^3+2))x_0^2x_3^2x_4x_5 + (c^2/(c^2+c+$
$1))x_0x_1x_3^2x_4x_5+((2c^3+2c^2)/(c^3+2))x_1^2x_3^2x_4x_5+((2c^3+2c^2)/(c^3+2))x_2^2x_3^2x_4x_5+(c^2/(c^2+c+1))x_0x_3^3x_4x_5+$
$(c^2/(c^2 + c + 1))x_1x_3^3x_4x_5 + (c^2/(c^2 + c + 1))x_2x_3^3x_4x_5 + ((c^2 + c)/(c^2 + c + 1))x_0^2x_1x_4^2x_5 + ((c^2 + c)/(c^2 +$
$c+1))x_0x_1^2x_4^2x_5 + (c^2/(c^2+c+1))x_0x_1x_2x_4^2x_5 + (2c^2/(c^3+2))x_0^2x_3x_4^2x_5 + ((c^3+c^2)/(c^3+2))x_0x_1x_3x_4^2x_5 +$
$(2c^2/(c^3+2))x_1^2x_3x_4^2x_5+(2c^2/(c^3+2))x_0x_2x_3x_4^2x_5+(2c^2/(c^3+2))x_1x_2x_3x_4^2x_5+(2c^2/(c^3+2))x_2^2x_3x_4^2x_5+((c^3+$
$c^2)/(c^3+2))x_0x_3^2x_4^2x_5+((c^3+c^2)/(c^3+2))x_1x_3^2x_4^2x_5+((c^3+c^2)/(c^3+2))x_2x_3^2x_4^2x_5+x_3^3x_4^2x_5-x_0^3x_1x_5^2+(c/(c+$
$2))x_0^2x_1^2x_5^2-x_0x_1^3x_5^2+((c^2+c)/(c^2+c+1))x_0^2x_1x_2x_5^2+((c^2+c)/(c^2+c+1))x_0x_1^2x_2x_5^2+(2c/(c+2))x_0x_1x_2^2x_5^2+$
$((c+1)/(c+2))x_0^3x_3x_5^2+((c^2+c)/(c^3+2))x_0^2x_1x_3x_5^2+((c^2+c)/(c^3+2))x_0x_1^2x_3x_5^2+((c+1)/(c+2))x_1^3x_3x_5^2+$
$((2c^3+c^2+2c)/(c^3+2))x_0^2x_2x_3x_5^2+(c^2/(c^2+c+1))x_0x_1x_2x_3x_5^2+((2c^3+c^2+2c)/(c^3+2))x_1^2x_2x_3x_5^2+((2c^3+$
$c^2 + 2c)/(c^3 + 2))x_0x_2^2x_3x_5^2 + ((2c^3 + c^2 + 2c)/(c^3 + 2))x_1x_2^2x_3x_5^2 + ((c+1)/(c+2))x_2^3x_3x_5^2 + (c^2/(c^2 + c +$
$1))x_0^2x_3^2x_5^2 + (c/(c^3+2))x_0x_1x_3^2x_5^2 + (c^2/(c^2+c+1))x_1^2x_3^2x_5^2 + ((c^3+c^2+2c)/(c^3+2))x_0x_2x_3^2x_5^2 + ((c^3+c^2+$
$2c)/(c^3+2))x_1x_2x_3^2x_5^2+(c^2/(c^2+c+1))x_2^2x_3^2x_5^2+(2/(c+2))x_0x_3^3x_5^2+(2/(c+2))x_1x_3^3x_5^2+(2/(c+2))x_2x_3^3x_5^2+$
$((c^2+c)/(c^2+c+1))x_0^2x_1x_4x_5^2+((c^2+c)/(c^2+c+1))x_0x_1^2x_4x_5^2+(c^2/(c^2+c+1))x_0x_1x_2x_4x_5^2+((c^3+c^2)/(c^3+$
$2))x_0^2x_3x_4x_5^2+(2c^3/(c^3+2))x_0x_1x_3x_4x_5^2+((c^3+c^2)/(c^3+2))x_1^2x_3x_4x_5^2+((c^3+c^2)/(c^3+2))x_0x_2x_3x_4x_5^2+((c^3+$
$c^2)/(c^3+2))x_1x_2x_3x_4x_5^2 + ((c^3+c^2)/(c^3+2))x_2^2x_3x_4x_5^2 + (2c^3/(c^3+2))x_0x_3^2x_4x_5^2 + (2c^3/(c^3+2))x_1x_3^2x_4x_5^2 +$
$(2c^3/(c^3+2))x_2x_3^2x_4x_5^2-x_3^3x_4x_5^2+(2c/(c+2))x_0x_1x_4^2x_5^2+(2c/(c+2))x_3^2x_4^2x_5^2+x_0^2x_3x_5^3+(2c/(c+2))x_0x_1x_3x_5^3+$
$x_1^2x_3x_5^3+(2c/(c+2))x_0x_2x_3x_5^3+(2c/(c+2))x_1x_2x_3x_5^3+x_2^2x_3x_5^3-x_0x_3^2x_5^3-x_1x_3^2x_5^3-x_2x_3^2x_5^3+((c+1)/c)x_3^3x_5^3+$
$(2c/(c+2))x_0x_3x_4x_5^3 + (2c/(c+2))x_1x_3x_4x_5^3 + (2c/(c+2))x_2x_3x_4x_5^3 - x_3^2x_4x_5^3 + x_3x_4^2x_5^3$

$((2c^2+1)/c^2)x_0^3x_1^3+((c+2)/c)x_0^3x_1^2x_2+((c+2)/c)x_0^2x_1^3x_2+((2c+1)/c)x_0^3x_1x_2^2+x_0^2x_1^2x_2^2+((2c+1)/c)x_0x_1^3x_2^2+$
$((c+2)/c)x_0^3x_1^2x_3 + ((2c+1)/c)x_0^2x_1^3x_3 + x_0^3x_1x_2x_3 + (2c/(c+2))x_0^2x_1^2x_2x_3 + (2c/(c+2))x_0^2x_1x_2^2x_3 + ((c+$
$2)/c)x_1^3x_2^2x_3 + ((2c+1)/c)x_0^3x_1x_3^2 + ((c+2)/c)x_0x_1^3x_3^2 + (c/(c+2))x_0x_1^2x_2x_3^2 + ((2c+1)/c)x_1^3x_2x_3^2 + (c/(c+$
$2))x_0x_1x_2^2x_3^2 - x_1^2x_2^2x_3^2 + ((c+2)/c)x_0^2x_1x_3^3 + ((2c+1)/c)x_0x_1^2x_3^3 + ((c^2+2)/c^2)x_1^3x_3^3 - x_0x_1x_2x_3^3 + ((2c+$
$1)/c)x_1^2x_2x_3^3+((c+2)/c)x_1x_2^2x_3^3+((c+2)/c)x_0^3x_1^2x_4+((c+2)/c)x_0^2x_1^3x_4+x_0^3x_1x_2x_4+(1/(c+2))x_0^2x_1^2x_2x_4+$
$x_0x_1^3x_2x_4+((c+1)/(c+2))x_0^2x_1x_2^2x_4+((c+1)/(c+2))x_0x_1^2x_2^2x_4+x_0^3x_1x_3x_4+(2c/(c+2))x_0^2x_1^2x_3x_4+(2c/(c+$
$2))x_0^2x_1x_2x_3x_4 - x_1^3x_2x_3x_4 + ((2c+2)/(c+2))x_1^2x_2^2x_3x_4 + (c/(c+2))x_0x_1^2x_3^2x_4 + ((2c+1)/c)x_1^3x_3^2x_4 + (c/(c+$
$2))x_0x_1x_2x_3^2x_4+(2/(c+2))x_1^2x_2x_3^2x_4+((2c+2)/(c+2))x_1x_2^2x_3^2x_4-x_0x_1x_3^3x_4+((2c+1)/c)x_1^2x_3^3x_4-x_1x_2x_3^3x_4+$
$((2c+1)/c)x_0^3x_1x_4^2 + x_0^2x_1^2x_4^2 + ((2c+1)/c)x_0x_1^3x_4^2 + ((c+1)/(c+2))x_0^2x_1x_2x_4^2 + ((c+1)/(c+2))x_0x_1^2x_2x_4^2 -$
$x_0x_1x_2^2x_4^2 + (2c/(c+2))x_0^2x_1x_3x_4^2 + ((c+2)/c)x_1^3x_3x_4^2 + ((2c+2)/(c+2))x_1^2x_2x_3x_4^2 + x_1x_2^2x_3x_4^2 + (c/(c+$
$2))x_0x_1x_3^2x_4^2-x_1^2x_3^2x_4^2+((2c+2)/(c+2))x_1x_2x_3^2x_4^2+((c+2)/c)x_1x_3^3x_4^2+((c+2)/c)x_0^3x_1^2x_5+((c+2)/c)x_0^2x_1^3x_5+$
$x_0^3x_1x_2x_5+(1/(c+2))x_0^2x_1^2x_2x_5+x_0x_1^3x_2x_5+((c+1)/(c+2))x_0^2x_1x_2^2x_5+((c+1)/(c+2))x_0x_1^2x_2^2x_5+x_0^3x_1x_3x_5+$
$(2c/(c+2))x_0^2x_1^2x_3x_5+(2c/(c+2))x_0^2x_1x_2x_3x_5-x_1^3x_2x_3x_5+((2c+2)/(c+2))x_1^2x_2^2x_3x_5+(c/(c+2))x_0x_1^2x_3^2x_5+$
$((2c+1)/c)x_1^3x_3^2x_5+(c/(c+2))x_0x_1x_2x_3^2x_5+(2/(c+2))x_1^2x_2x_3^2x_5+((2c+2)/(c+2))x_1x_2^2x_3^2x_5-x_0x_1x_3^3x_5+$
$((2c+1)/c)x_1^2x_3^3x_5 - x_1x_2x_3^3x_5 + x_0^3x_1x_4x_5 + (1/(c+2))x_0^2x_1^2x_4x_5 + x_0x_1^3x_4x_5 + (c/(c+2))x_0x_1x_2^2x_4x_5 +$
$(2c/(c+2))x_0^2x_1x_3x_4x_5-x_1^3x_3x_4x_5+(2c/(c+2))x_1x_2^2x_3x_4x_5+(c/(c+2))x_0x_1x_3^2x_4x_5+(2/(c+2))x_1^2x_3^2x_4x_5-$
$x_1x_3^3x_4x_5 + ((c+1)/(c+2))x_0^2x_1x_4^2x_5 + ((c+1)/(c+2))x_0x_1^2x_4^2x_5 + (c/(c+2))x_0x_1x_2x_4^2x_5 + ((2c+2)/(c+$
$2))x_1^2x_3x_4^2x_5 + (2c/(c+2))x_1x_2x_3x_4^2x_5 + ((2c+2)/(c+2))x_1x_3^2x_4^2x_5 + ((2c+1)/c)x_0^3x_1x_5^2 + x_0^2x_1^2x_5^2 + ((2c+$

$1)/c)x_0x_1^3x_5^2 + ((c+1)/(c+2))x_0^2x_1x_2x_5^2 + ((c+1)/(c+2))x_0x_1^2x_2x_5^2 - x_0x_1x_2^2x_5^2 + (2c/(c+2))x_0^2x_1x_3x_5^2 +$
$((c+2)/c)x_1^3x_3x_5^2 + ((2c+2)/(c+2))x_1^2x_2x_3x_5^2 + x_1x_2^2x_3x_5^2 + (c/(c+2))x_0x_1x_3^2x_5^2 - x_1^2x_3^2x_5^2 + ((2c+2)/(c+$
$2))x_1x_2x_3^2x_5^2+((c+2)/c)x_1x_3^3x_5^2+((c+1)/(c+2))x_0^2x_1x_4x_5^2+((c+1)/(c+2))x_0x_1^2x_4x_5^2+(c/(c+2))x_0x_1x_2x_4x_5^2+$
$((2c+2)/(c+2))x_1^2x_3x_4x_5^2 + (2c/(c+2))x_1x_2x_3x_4x_5^2 + ((2c+2)/(c+2))x_1x_3^2x_4x_5^2 - x_0x_1x_4^2x_5^2 + x_1x_3x_4^2x_5^2$

$((2c^2+1)/c^2)x_0^3x_1^3+((c+2)/c)x_0^3x_1^2x_2+((c+2)/c)x_0^2x_1^3x_2+((2c+1)/c)x_0^3x_1x_2^2+x_0^2x_1^2x_2^2+((2c+1)/c)x_0x_1^3x_2^2+$
$((2c+1)/c)x_0^3x_1^2x_3 + ((c+2)/c)x_0^2x_1^3x_3 + (2c/(c+2))x_0^2x_1^2x_2x_3 + x_0x_1^3x_2x_3 + ((c+2)/c)x_0^3x_2^2x_3 + (2c/(c+$
$2))x_0x_1^2x_2^2x_3 + ((c+2)/c)x_0^3x_1x_3^2 + ((2c+1)/c)x_0x_1^3x_3^2 + ((2c+1)/c)x_0^3x_2x_3^2 + (c/(c+2))x_0^2x_1x_2x_3^2 - x_0^2x_2^2x_3^2 +$
$(c/(c+2))x_0x_1x_2^2x_3^2 + ((c^2+2)/c^2)x_0^3x_3^3 + ((2c+1)/c)x_0^2x_1x_3^3 + ((c+2)/c)x_0x_1^2x_3^3 + ((2c+1)/c)x_0^2x_2x_3^3 -$
$x_0x_1x_2x_3^3 + ((c+2)/c)x_0x_2^2x_3^3 + ((c+2)/c)x_0^3x_1^2x_4 + ((c+2)/c)x_0^2x_1^3x_4 + x_0^3x_1x_2x_4 + (1/(c+2))x_0^2x_1^2x_2x_4 +$
$x_0x_1^3x_2x_4+((c+1)/(c+2))x_0^2x_1x_2^2x_4+((c+1)/(c+2))x_0x_1^2x_2^2x_4+(2c/(c+2))x_0^2x_1^2x_3x_4+x_0x_1^3x_3x_4-x_0^3x_2x_3x_4+$
$(2c/(c+2))x_0x_1^2x_2x_3x_4 + ((2c+2)/(c+2))x_0^2x_2^2x_3x_4 + ((2c+1)/c)x_0^3x_3^2x_4 + (c/(c+2))x_0^2x_1x_3^2x_4 + (2/(c+$
$2))x_0^2x_2x_3^2x_4+(c/(c+2))x_0x_1x_2x_3^2x_4+((2c+2)/(c+2))x_0x_2^2x_3^2x_4+((2c+1)/c)x_0^2x_3^3x_4-x_0x_1x_3^3x_4-x_0x_2x_3^3x_4+$
$((2c+1)/c)x_0^3x_1x_4^2 + x_0^2x_1^2x_4^2 + ((2c+1)/c)x_0x_1^3x_4^2 + ((c+1)/(c+2))x_0^2x_1x_2x_4^2 + ((c+1)/(c+2))x_0x_1^2x_2x_4^2 -$
$x_0x_1x_2^2x_4^2+((c+2)/c)x_0^3x_3x_4^2+(2c/(c+2))x_0x_1^2x_3x_4^2+((2c+2)/(c+2))x_0^2x_2x_3x_4^2+x_0x_2^2x_3x_4^2-x_0^2x_3^2x_4^2+(c/(c+$
$2))x_0x_1x_3^2x_4^2+((2c+2)/(c+2))x_0x_2x_3^2x_4^2+((c+2)/c)x_0x_3^3x_4^2+((c+2)/c)x_0^3x_1^2x_5+((c+2)/c)x_0^2x_1^3x_5+x_0^3x_1x_2x_5+$
$(1/(c+2))x_0^2x_1^2x_2x_5+x_0x_1^3x_2x_5+((c+1)/(c+2))x_0^2x_1x_2^2x_5+((c+1)/(c+2))x_0x_1^2x_2^2x_5+(2c/(c+2))x_0^2x_1^2x_3x_5+$
$x_0x_1^3x_3x_5 - x_0^3x_2x_3x_5 + (2c/(c+2))x_0x_1^2x_2x_3x_5 + ((2c+2)/(c+2))x_0^2x_2^2x_3x_5 + ((2c+1)/c)x_0^3x_3^2x_5 + (c/(c+$
$2))x_0^2x_1x_3^2x_5+(2/(c+2))x_0^2x_2x_3^2x_5+(c/(c+2))x_0x_1x_2x_3^2x_5+((2c+2)/(c+2))x_0x_2^2x_3^2x_5+((2c+1)/c)x_0^2x_3^3x_5-$
$x_0x_1x_3^3x_5 - x_0x_2x_3^3x_5 + x_0^3x_1x_4x_5 + (1/(c+2))x_0^2x_1^2x_4x_5 + x_0x_1^3x_4x_5 + (c/(c+2))x_0x_1x_2^2x_4x_5 - x_0^3x_3x_4x_5 +$
$(2c/(c+2))x_0x_1^2x_3x_4x_5+(2c/(c+2))x_0x_2^2x_3x_4x_5+(2/(c+2))x_0^2x_3^2x_4x_5+(c/(c+2))x_0x_1x_3^2x_4x_5-x_0x_3^3x_4x_5+$
$((c+1)/(c+2))x_0^2x_1x_4^2x_5 + ((c+1)/(c+2))x_0x_1^2x_4^2x_5 + (c/(c+2))x_0x_1x_2x_4^2x_5 + ((2c+2)/(c+2))x_0^2x_3x_4^2x_5 +$
$(2c/(c+2))x_0x_2x_3x_4^2x_5 + ((2c+2)/(c+2))x_0x_3^2x_4^2x_5 + ((2c+1)/c)x_0^3x_1x_5^2 + x_0^2x_1^2x_5^2 + ((2c+1)/c)x_0x_1^3x_5^2 +$
$((c+1)/(c+2))x_0^2x_1x_2x_5^2 + ((c+1)/(c+2))x_0x_1^2x_2x_5^2 - x_0x_1x_2^2x_5^2 + ((c+2)/c)x_0^3x_3x_5^2 + (2c/(c+2))x_0x_1^2x_3x_5^2 +$
$((2c+2)/(c+2))x_0^2x_2x_3x_5^2 + x_0x_2^2x_3x_5^2 - x_0^2x_3^2x_5^2 + (c/(c+2))x_0x_1x_3^2x_5^2 + ((2c+2)/(c+2))x_0x_2x_3^2x_5^2 + ((c+$
$2)/c)x_0x_3^3x_5^2 + ((c+1)/(c+2))x_0^2x_1x_4x_5^2 + ((c+1)/(c+2))x_0x_1^2x_4x_5^2 + (c/(c+2))x_0x_1x_2x_4x_5^2 + ((2c+2)/(c+$
$2))x_0^2x_3x_4x_5^2 + (2c/(c+2))x_0x_2x_3x_4x_5^2 + ((2c+2)/(c+2))x_0x_3^2x_4x_5^2 - x_0x_1x_4^2x_5^2 + x_0x_3x_4^2x_5^2$

$((2c^2+1)/c^2)x_0^3x_1^3 + ((c+2)/c)x_0^3x_1^2x_2 + ((2c+1)/c)x_0^2x_1^3x_2 + ((2c+1)/c)x_0^3x_1x_2^2 + ((c+2)/c)x_0x_1^3x_2^2 + ((c+$
$2)/c)x_0^2x_1x_2^3 + ((2c+1)/c)x_0x_1^2x_2^3 + ((c^2+2)/c^2)x_1^3x_2^3 + ((c+2)/c)x_0^3x_1^2x_3 + ((c+2)/c)x_0^2x_1^3x_3 + x_0^3x_1x_2x_3 +$
$(2c/(c+2))x_0^2x_1^2x_2x_3 + (c/(c+2))x_0x_1^2x_2^2x_3 + ((2c+1)/c)x_1^3x_2^2x_3 - x_0x_1x_2^3x_3 + ((2c+1)/c)x_1^2x_2^3x_3 + ((2c+$
$1)/c)x_0^3x_1x_3^2+x_0^2x_1^2x_3^2+((2c+1)/c)x_0x_1^3x_3^2+(2c/(c+2))x_0^2x_1x_2x_3^2+((c+2)/c)x_1^3x_2x_3^2+(c/(c+2))x_0x_1x_2^2x_3^2-$
$x_1^2x_2^2x_3^2 + ((c+2)/c)x_1x_2^3x_3^2 + ((c+2)/c)x_0^3x_1^2x_4 + ((c+2)/c)x_0^2x_1^3x_4 + x_0^3x_1x_2x_4 + (2c/(c+2))x_0^2x_1^2x_2x_4 +$
$(c/(c+2))x_0x_1^2x_2^2x_4+((2c+1)/c)x_1^3x_2^2x_4-x_0x_1x_2^3x_4+((2c+1)/c)x_1^2x_2^3x_4+x_0^3x_1x_3x_4+(1/(c+2))x_0^2x_1^2x_3x_4+$
$x_0x_1^3x_3x_4+(2c/(c+2))x_0^2x_1x_2x_3x_4-x_1^3x_2x_3x_4+(c/(c+2))x_0x_1x_2^2x_3x_4+(2/(c+2))x_1^2x_2^2x_3x_4-x_1x_2^3x_3x_4+((c+$
$1)/(c+2))x_0^2x_1x_3^2x_4+((c+1)/(c+2))x_0x_1^2x_3^2x_4+((2c+2)/(c+2))x_1^2x_2x_3^2x_4+((2c+2)/(c+2))x_1x_2^2x_3^2x_4+((2c+$
$1)/c)x_0^3x_1x_4^2+x_0^2x_1^2x_4^2+((2c+1)/c)x_0x_1^3x_4^2+(2c/(c+2))x_0^2x_1x_2x_4^2+((c+2)/c)x_1^3x_2x_4^2+(c/(c+2))x_0x_1x_2^2x_4^2-$
$x_1^2x_2^2x_4^2+((c+2)/c)x_1x_2^3x_4^2+((c+1)/(c+2))x_0^2x_1x_3x_4^2+((c+1)/(c+2))x_0x_1^2x_3x_4^2+((2c+2)/(c+2))x_1^2x_2x_3x_4^2+$
$((2c+2)/(c+2))x_1x_2^2x_3x_4^2-x_0x_1x_3^2x_4^2+x_1x_2x_3^2x_4^2+((c+2)/c)x_0^3x_1^2x_5+((c+2)/c)x_0^2x_1^3x_5+x_0^3x_1x_2x_5+(2c/(c+$
$2))x_0^2x_1^2x_2x_5+(c/(c+2))x_0x_1^2x_2^2x_5+((2c+1)/c)x_1^3x_2^2x_5-x_0x_1x_2^3x_5+((2c+1)/c)x_1^2x_2^3x_5+x_0^3x_1x_3x_5+(1/(c+$
$2))x_0^2x_1^2x_3x_5+x_0x_1^3x_3x_5+(2c/(c+2))x_0^2x_1x_2x_3x_5-x_1^3x_2x_3x_5+(c/(c+2))x_0x_1x_2^2x_3x_5+(2/(c+2))x_1^2x_2^2x_3x_5-$
$x_1x_2^3x_3x_5+((c+1)/(c+2))x_0^2x_1x_3^2x_5+((c+1)/(c+2))x_0x_1^2x_3^2x_5+((2c+2)/(c+2))x_1^2x_2x_3^2x_5+((2c+2)/(c+$
$2))x_1x_2^2x_3^2x_5 + x_0^3x_1x_4x_5 + (1/(c+2))x_0^2x_1^2x_4x_5 + x_0x_1^3x_4x_5 + (2c/(c+2))x_0^2x_1x_2x_4x_5 - x_1^3x_2x_4x_5 + (c/(c+$
$2))x_0x_1x_2^2x_4x_5 + (2/(c+2))x_1^2x_2^2x_4x_5 - x_1x_2^3x_4x_5 + (c/(c+2))x_0x_1x_3^2x_4x_5 + (2c/(c+2))x_1x_2x_3^2x_4x_5 + ((c+$
$1)/(c+2))x_0^2x_1x_4^2x_5 + ((c+1)/(c+2))x_0x_1^2x_4^2x_5 + ((2c+2)/(c+2))x_1^2x_2x_4^2x_5 + ((2c+2)/(c+2))x_1x_2^2x_4^2x_5 +$
$(c/(c+2))x_0x_1x_3x_4^2x_5 + (2c/(c+2))x_1x_2x_3x_4^2x_5 + ((2c+1)/c)x_0^3x_1x_5^2 + x_0^2x_1^2x_5^2 + ((2c+1)/c)x_0x_1^3x_5^2 +$
$(2c/(c+2))x_0^2x_1x_2x_5^2 + ((c+2)/c)x_1^3x_2x_5^2 + (c/(c+2))x_0x_1x_2^2x_5^2 - x_1^2x_2^2x_5^2 + ((c+2)/c)x_1x_2^3x_5^2 + ((c+1)/(c+$
$2))x_0^2x_1x_3x_5^2+((c+1)/(c+2))x_0x_1^2x_3x_5^2+((2c+2)/(c+2))x_1^2x_2x_3x_5^2+((2c+2)/(c+2))x_1x_2^2x_3x_5^2-x_0x_1x_3^2x_5^2+$
$x_1x_2x_3^2x_5^2+((c+1)/(c+2))x_0^2x_1x_4x_5^2+((c+1)/(c+2))x_0x_1^2x_4x_5^2+((2c+2)/(c+2))x_1^2x_2x_4x_5^2+((2c+2)/(c+$
$2))x_1x_2^2x_4x_5^2 + (c/(c+2))x_0x_1x_3x_4x_5^2 + (2c/(c+2))x_1x_2x_3x_4x_5^2 - x_0x_1x_4^2x_5^2 + x_1x_2x_4^2x_5^2$

$((2c^2+1)/c^2)x_0^3x_1^3 + ((2c+1)/c)x_0^3x_1^2x_2 + ((c+2)/c)x_0^2x_1^3x_2 + ((c+2)/c)x_0^3x_1x_2^2 + ((2c+1)/c)x_0x_1^3x_2^2 +$
$((c^2+2)/c^2)x_0^3x_2^3+((2c+1)/c)x_0^2x_1x_2^3+((c+2)/c)x_0x_1^2x_2^3+((c+2)/c)x_0^3x_1^2x_3+((c+2)/c)x_0^2x_1^3x_3+(2c/(c+$
$2))x_0^2x_1^2x_2x_3+x_0x_1^3x_2x_3+((2c+1)/c)x_0^3x_2^2x_3+(c/(c+2))x_0^2x_1x_2^2x_3+((2c+1)/c)x_0^2x_2^3x_3-x_0x_1x_2^3x_3+((2c+$

$1)/c)x_0^3x_1x_3^2 + x_0^2x_1^2x_3^2 + ((2c+1)/c)x_0x_1^3x_3^2 + ((c+2)/c)x_0^3x_2x_3^2 + (2c/(c+2))x_0x_1^2x_2x_3^2 - x_0^2x_2^2x_3^2 + (c/(c+2))x_0x_1x_2^2x_3^2 + ((c+2)/c)x_0x_2^3x_3^2 + ((c+2)/c)x_0^3x_1^2x_4 + ((c+2)/c)x_0^2x_1^3x_4 + (2c/(c+2))x_0^2x_1^2x_2x_4 + x_0x_1^3x_2x_4 + ((2c+1)/c)x_0^3x_2^2x_4 + (c/(c+2))x_0^2x_1x_2^2x_4 + ((2c+1)/c)x_0^2x_2^3x_4 - x_0x_1x_2^3x_4 + x_0^3x_1x_3x_4 + (1/(c+2))x_0^2x_1^2x_3x_4 + x_0x_1^3x_3x_4 - x_0^3x_2x_3x_4 + (2c/(c+2))x_0x_1^2x_2x_3x_4 + (2/(c+2))x_0^2x_2^2x_3x_4 + (c/(c+2))x_0x_1x_2^2x_3x_4 - x_0x_2^3x_3x_4 + ((c+1)/(c+2))x_0^2x_1x_3^2x_4 + ((c+1)/(c+2))x_0x_1^2x_3^2x_4 + ((2c+2)/(c+2))x_0^2x_2x_3^2x_4 + ((2c+2)/(c+2))x_0x_2^2x_3^2x_4 + ((2c+1)/c)x_0^3x_1x_4^2 + x_0^2x_1^2x_4^2 + ((2c+1)/c)x_0x_1^3x_4^2 + ((c+2)/c)x_0^3x_2x_4^2 + (2c/(c+2))x_0x_1^2x_2x_4^2 - x_0^2x_2^2x_4^2 + (c/(c+2))x_0x_1x_2^2x_4^2 + ((c+2)/c)x_0x_2^3x_4^2 + ((c+1)/(c+2))x_0^2x_1x_3x_4^2 + ((c+1)/(c+2))x_0x_1^2x_3x_4^2 + ((2c+2)/(c+2))x_0^2x_2x_3x_4^2 + ((2c+2)/(c+2))x_0x_2^2x_3x_4^2 - x_0x_1x_3^2x_4^2 + x_0x_2x_3^2x_4^2 + ((c+2)/c)x_0^3x_1^2x_5 + ((c+2)/c)x_0^2x_1^3x_5 + (2c/(c+2))x_0^2x_1^2x_2x_5 + x_0x_1^3x_2x_5 + ((2c+1)/c)x_0^3x_2^2x_5 + (c/(c+2))x_0^2x_1x_2^2x_5 + ((2c+1)/c)x_0^2x_2^3x_5 - x_0x_1x_2^3x_5 + x_0^3x_1x_3x_5 + (1/(c+2))x_0^2x_1^2x_3x_5 + x_0x_1^3x_3x_5 - x_0^3x_2x_3x_5 + (2c/(c+2))x_0x_1^2x_2x_3x_5 + (2/(c+2))x_0^2x_2^2x_3x_5 + (c/(c+2))x_0x_1x_2^2x_3x_5 - x_0x_2^3x_3x_5 + ((c+1)/(c+2))x_0^2x_1x_3^2x_5 + ((c+1)/(c+2))x_0x_1^2x_3^2x_5 + ((2c+2)/(c+2))x_0^2x_2x_3^2x_5 + ((2c+2)/(c+2))x_0x_2^2x_3^2x_5 + x_0^3x_1x_4x_5 + (1/(c+2))x_0^2x_1^2x_4x_5 + x_0x_1^3x_4x_5 - x_0^3x_2x_4x_5 + (2c/(c+2))x_0x_1^2x_2x_4x_5 + (2/(c+2))x_0^2x_2^2x_4x_5 + (c/(c+2))x_0x_1x_2^2x_4x_5 - x_0x_2^3x_4x_5 + (c/(c+2))x_0x_1x_3^2x_4x_5 + (2c/(c+2))x_0x_2x_3^2x_4x_5 + ((c+1)/(c+2))x_0^2x_1x_4^2x_5 + ((c+1)/(c+2))x_0x_1^2x_4^2x_5 + ((2c+2)/(c+2))x_0^2x_2x_4^2x_5 + ((2c+2)/(c+2))x_0x_2^2x_4^2x_5 + (c/(c+2))x_0x_1x_3x_4^2x_5 + (2c/(c+2))x_0x_2x_3x_4^2x_5 + ((2c+1)/c)x_0^3x_1x_5^2 + x_0^2x_1^2x_5^2 + ((2c+1)/c)x_0x_1^3x_5^2 + ((c+2)/c)x_0^3x_2x_5^2 + (2c/(c+2))x_0x_1^2x_2x_5^2 - x_0^2x_2^2x_5^2 + (c/(c+2))x_0x_1x_2^2x_5^2 + ((c+2)/c)x_0x_2^3x_5^2 + ((c+1)/(c+2))x_0^2x_1x_3x_5^2 + ((c+1)/(c+2))x_0x_1^2x_3x_5^2 + ((2c+2)/(c+2))x_0^2x_2x_3x_5^2 + ((2c+2)/(c+2))x_0x_2^2x_3x_5^2 - x_0x_1x_3^2x_5^2 + x_0x_2x_3^2x_5^2 + ((c+1)/(c+2))x_0^2x_1x_4x_5^2 + ((c+1)/(c+2))x_0x_1^2x_4x_5^2 + ((2c+2)/(c+2))x_0^2x_2x_4x_5^2 + ((2c+2)/(c+2))x_0x_2^2x_4x_5^2 + (c/(c+2))x_0x_1x_3x_4x_5^2 + (2c/(c+2))x_0x_2x_3x_4x_5^2 - x_0x_1x_4^2x_5^2 + x_0x_2x_4^2x_5^2$

12 Conjecture for $p = 3, 3 \mid n$

Variables are $x_0, \ldots, x_{n-1}$.

Generators are:

x_0^9 in degree 9, and $\sum x_i^3$ in degree 3. There are $n-2$ remaining generators in degree 3, each with the following form:

$\frac{c+1}{c}(x_1^3 - x_0^3) + (x_1 - x_0)(x_0x_1) + (x_1 - x_0)\left(\sum_{i\geq 2} x_i^2 - x_i(x_1 + x_0)\right) + \frac{2c}{c+2}(x_1 - x_0)\left(\sum_{i,j\geq 2; i<j} x_ix_j\right)$.

(The other generators are created from this one by switching x_1 with x_k for some $k \geq 2$.)

We note that since $3 \mid n$ that $\sum_{i<j}(x_i - x_j)^2 = \sum_{i<j} x_ix_j + \sum_{i<j} x_i^2 + x_j^2 = -\sum_i x_i^2 + \sum_{i<j} x_ix_j$.

We also note that $\sum_i (x_i^2 - x_ix_1 - x_ix_0) = x_0x_1 + \sum_{i\geq 2}(x_i^2 - x_ix_1 - x_ix_0)$.

We also note that $nx_1^2 = nx_0^2 = nx_0x_1 = 0$.

$$\frac{c+1}{c}(x_1^3-x_0^3)+(x_1-x_0)(x_0x_1)+(x_1-x_0)\left(\sum_{i\geq 2}x_i^2-x_i(x_1+x_0)\right)+\frac{2c}{c+2}(x_1-x_0)\left(\sum_{i,j\geq 2;i<j}x_ix_j\right)=$$

$$=\frac{x_1-x_0}{c(c+2)}\left((c+1)(c+2)(x_0^2+x_0x_1+x_1^2)+c(c+2)(x_0x_1)+c(c+2)\left(\sum_{i\geq 2}x_i^2-x_i(x_1+x_0)\right)+2c^2\left(\sum_{i,j\geq 2;i<j}x_ix_j\right)\right)$$

$$=\frac{x_1-x_0}{c(c+2)}\left((c^2-1)(x_0^2+x_0x_1+x_1^2)+(c^2-c)(x_0x_1)+(c^2-c)\left(\sum_{i\geq 2}x_i^2-x_i(x_1+x_0)\right)-c^2\left(\sum_{i,j\geq 2;i<j}x_ix_j\right)\right)$$

$$=\frac{x_1-x_0}{c(c+2)}((c^2-1)(x_0^2+x_0x_1+x_1^2)+(c^2-c)(x_0x_1)+c^2\left(\sum_{i\geq 2}x_i^2\right)-c^2\left(\sum_{i\geq 2}x_ix_1+x_ix_0\right)$$

$$-c\left(\sum_{i\geq 2}x_i^2-x_ix_1-x_ix_0\right)-c^2\left(\sum_{i,j\geq 2;i<j}x_ix_j\right))$$

$$=\frac{x_1-x_0}{c(c+2)}((c^2-1)(x_0^2+x_0x_1+x_1^2)+(c^2-c)(x_0x_1)+c^2\left(\sum_{i\geq 2}x_i^2\right)+c^2x_0x_1-c\left(\sum_{i\geq 2}x_i^2-x_ix_1-x_ix_0\right)$$

$$-c^2\left(\sum_{i<j}x_ix_j\right))$$

$$=\frac{x_1-x_0}{c(c+2)}\left(c^2x_0^2+c^2x_1^2-x_0^2-x_1^2-x_0x_1-cx_0x_1+c^2\left(\sum_{i\geq 2}x_i^2\right)-c\left(\sum_{i\geq 2}x_i^2-x_ix_1-x_ix_0\right)-c^2\left(\sum_{i<j}x_ix_j\right)\right)$$

$$=\frac{x_1-x_0}{c(c+2)}\left(-x_0^2-x_1^2-x_0x_1+c^2\left(\sum_{i}x_i^2\right)-c\left(\sum_{i}x_i^2-x_ix_1-x_ix_0\right)-c^2\left(\sum_{i<j}x_ix_j\right)\right)$$

$$=\frac{x_1-x_0}{c(c+2)}\left(-(x_0-x_1)^2+c^2\left(\sum_{i}x_i^2\right)-c\left(\sum_{i}x_i^2-x_ix_1-x_ix_0\right)-c^2\left(\sum_{i<j}x_ix_j\right)\right)$$

$$=\frac{x_1-x_0}{c(c+2)}\left(-(x_0-x_1)^2-c\left(\sum_{i}x_i^2-x_ix_1-x_ix_0+x_0x_1\right)-c^2\left(\sum_{i<j}(x_i-x_j)^2\right)\right)$$

$$=\frac{x_1-x_0}{c(c+2)}\left(-(x_0-x_1)^2-c\left(\sum_{i}(x_i-x_1)(x_i-x_0)\right)-c^2\left(\sum_{i<j}(x_i-x_j)^2\right)\right)$$

$$=\frac{1}{c(c+2)}\left(x_0^3-x_1^3-c\left(\sum_{i}(x_1-x_0)(x_i-x_1)(x_i-x_0)\right)-c^2\left(\sum_{i<j}(x_1-x_0)(x_i-x_j)^2\right)\right)$$

(Checked with Sage)

Let this generator equal g. We see that for $\{i,j\}\cap\{0,1\}=\emptyset$ that $s_{ij}g=g$. Therefore $\frac{g-s_{ij}g}{x_i-x_j}=0$.

We see easily that $s_{0k}g$ for $k\neq 1$ is $\frac{x_1-x_k}{c(c+2)}\left(-(x_k-x_1)^2-c\sum_i(x_i-x_1)(x_i-x_k)-c^2\sum_{i<j}(x_i-x_j)^2\right)$. From there further simple algebra tells us that $(x_1-x_0)(x_i-x_0)(x_i-x_1)-(x_1-x_k)(x_i-x_1)(x_i-x_k)=$

$(x_1 - x_i)(x_0 - x_1 + x_k - x_i)(x_k - x_0)$ for all i. From this we see easily that

$\frac{g - s_{0k}g}{x_k - x_0} = \frac{1}{c(c+2)}\left(-(x_k - x_0)^2 - c\sum_i (x_1 - x_i)(x_0 - x_1 + x_k - x_i) - c^2 \sum_{i<j}(x_i - x_j)^2\right).$

Similar algebra shows us that for $k \neq 0, 1$:

$\frac{g - s_{1k}g}{x_k - x_1} = \frac{1}{c(c+2)}\left((x_k - x_1)^2 + c\sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) + c^2 \sum_{i<j}(x_i - x_j)^2\right).$

The final case is $s_{01}g$. We see easily that all the terms inside the largest parentheses are left untouched by s_{01}. Therefore $s_{01}g = -g$, so $\frac{g - s_{01}g}{x_1 - x_0} = \frac{g - -g}{x_1 - x_0} = \frac{2g}{x_1 - x_0} = -\frac{g}{x_1 - x_0}$; this is just

$\frac{1}{c(c+2)}\left((x_0 - x_1)^2 + c\left(\sum_i (x_i - x_1)(x_i - x_0)\right) + c^2\left(\sum_{i<j}(x_i - x_j)^2\right)\right).$

We can use these to calculate the values for the Dunkl operators. We need only check D_0g, D_1g, D_2g, because the rest are essentially equivalent to D_2g.

12.1 D_0g

We start with D_0g. We see that $D_0g = \partial_0 g - c\sum_{i\geq 1}\frac{g - s_{0i}g}{x_0 - x_i}$.

We consider the partial derivative.

$$\begin{aligned}
\partial_0 g &= \partial_0\left(\frac{1}{c(c+2)}\left(x_0^3 - x_1^3 - c\left(\sum_i (x_1 - x_0)(x_i - x_1)(x_i - x_0)\right) - c^2\left(\sum_{i<j}(x_1 - x_0)(x_i - x_j)^2\right)\right)\right)\\
&= \frac{1}{c(c+2)}\left(-c\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 + x_1 + x_i)\right) - c^2\left(\sum_{i<j}\partial_0((x_1 - x_0)(x_i - x_j)^2)\right)\right)\\
&= \frac{1}{c(c+2)}\left(-c\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 + x_1 + x_i)\right) - c^2\left(\sum_{i\geq 1}\partial_0((x_1 - x_0)(x_i - x_0)^2)\right) - c^2\left(\sum_{0<i<j}\partial_0((x_1 - x_0)(x_i - x_j)^2)\right)\right.\\
&= \frac{1}{c(c+2)}\left(-c\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 + x_1 + x_i)\right) - c^2\left(\sum_{i\geq 1}\partial_0((x_1 - x_0)(x_i - x_0)^2)\right) + c^2\left(\sum_{0<i<j}(x_i - x_j)^2\right)\right)\\
&= \frac{1}{c(c+2)}\left(-c\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 + x_1 + x_i)\right) + c^2\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 - x_i)\right) + c^2\left(\sum_{0<i<j}(x_i - x_j)^2\right)\right)\\
&= \frac{c}{c(c+2)}\left(-\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 + x_1 + x_i)\right) + c\left(\sum_{i\geq 2}(x_1 - x_i)(x_0 - x_i)\right) + c\left(\sum_{0<i<j}(x_i - x_j)^2\right)\right)
\end{aligned}$$

We note that in $\sum_{0<i<j}(x_i - x_j)^2$ that in each term at least one of the x_i, x_j has index ≥ 2. Therefore $\sum_{0<i<j}(x_i - x_j)^2 = \sum_{0<i<j} -2(x_i - x_j)^2 = -\sum_{0<i,j;i\neq j}(x_i - x_j)^2 = -\left(\sum_{i\geq 2}\sum_{j\geq 1}(x_i - x_j)^2\right) - \left(\sum_{i\geq 2}(x_i - x_1)^2\right)$ because of the double-counting. Then since $n - 1 = -1$, we see that this is equal to $-\left(\sum_{i\geq 2}\sum_{j\geq 1}(x_i - x_j)^2 - (x_i - x_1)^2\right) = \sum_{i\geq 2}\sum_{j\geq 1}(x_i - x_1)^2 - (x_i - x_j)^2 = \sum_{i\geq 2}\sum_{j\geq 1}(x_1 - x_j)(x_1 +$

$x_j + x_i)$.

Therefore we have (there is a switch of indices):

$$\begin{aligned}
\partial_0 g &= \frac{c}{c(c+2)}\left(-\left(\sum_{i\geq 2}(x_1-x_i)(x_0+x_1+x_i)\right)+c\left(\sum_{i\geq 2}(x_1-x_i)(x_0-x_i)\right)+c\left(\sum_{i\geq 2}\sum_{j\geq 1}(x_1-x_j)(x_1+x_j+x_i)\right)\right)\\
&= \frac{c}{c(c+2)}\left(-\left(\sum_{i\geq 2}(x_1-x_i)(x_0+x_1+x_i)\right)+c\left(\sum_{i\geq 2}(x_1-x_i)(x_0-x_i)\right)+c\left(\sum_{i\geq 2}\sum_{j\geq 2}(x_1-x_i)(x_1+x_j+x_i)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}\left(-\left((x_1-x_i)(x_0+x_1+x_i)\right)+c\left((x_1-x_i)(x_0-x_i)\right)+c\left(\sum_{j\geq 2}(x_1-x_i)(x_1+x_j+x_i)\right)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}(x_i-x_1)\left((x_0+x_1+x_i)-c\left(x_0-x_i\right)-c\left(\sum_{j\geq 2}(x_1+x_j+x_i)\right)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}(x_i-x_1)\left((x_0+x_1+x_i)-cx_0+cx_i-cx_1-cx_i-c\left(\sum_{j\geq 2}x_j\right)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}(x_i-x_1)\left((x_0+x_1+x_i)-c\left(\sum_{j}x_j\right)\right)\right)
\end{aligned}$$

Let $G_1 = \frac{g-s_{01}g}{x_0-x_1} = -\frac{1}{c(c+2)}\left((x_0-x_1)^2+c\left(\sum_i(x_i-x_1)(x_i-x_0)\right)+c^2\left(\sum_{i<j}(x_i-x_j)^2\right)\right)$. Let $G_2 = \sum_{i\geq 2}\frac{g-s_{0i}g}{x_0-x_i}$.

$$\begin{aligned}
G_2 &= \sum_{i\geq 2}\frac{g-s_{0i}g}{x_0-x_i}\\
&= \sum_{k\geq 2}\left(\frac{1}{c(c+2)}\left((x_k-x_0)^2+c\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)+c^2\sum_{i<j}(x_i-x_j)^2\right)\right)\\
&= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k-x_0)^2+c\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)\right)+(n-2)c^2\sum_{i<j}(x_i-x_j)^2\right)\\
&= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k-x_0)^2+c\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)\right)+c^2\sum_{i<j}(x_i-x_j)^2\right)\\
&= \frac{1}{c(c+2)}\left(c\sum_{k\geq 2}\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)+c^2\sum_{i<j}(x_i-x_j)^2+\left(\sum_{k\geq 2}(x_k-x_0)^2\right)\right)
\end{aligned}$$

We note that $n-2-1=0$ since $3 \mid n$. Therefore:

$$
\begin{aligned}
G_2+G_1 &= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k-x_0)^2+c\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)\right)+(n-2)c^2\sum_{i<j}(x_i-x_j)^2\right)\\
&\quad -\frac{1}{c(c+2)}\left((x_0-x_1)^2+c\left(\sum_i(x_i-x_1)(x_i-x_0)\right)+c^2\left(\sum_{i<j}(x_i-x_j)^2\right)\right)\\
&= \frac{1}{c(c+2)}(\sum_{k\geq 2}\left((x_k-x_0)^2+c\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)\right)\\
&\quad -(x_0-x_1)^2-c\left(\sum_i(x_i-x_1)(x_i-x_0)\right))
\end{aligned}
$$

We consider $\sum_{k\geq 2}\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)-(\sum_i(x_i-x_1)(x_i-x_0))$. We note that $n-2=1$, so this is equal to $\sum_{k\geq 2}\sum_i(x_1-x_i)(x_0-x_1+x_k-x_i)-\left(\sum_{k\geq 2}\sum_i(x_i-x_1)(x_i-x_0)\right)$; then this is equal to $\sum_{k\geq 2}\sum_i((x_1-x_i)(x_0-x_1+x_k-x_i)-(x_i-x_1)(x_i-x_0))$. This simplifies to $\sum_{k\geq 2}\sum_i(x_1-x_i)(x_k-x_1)$.

Therefore we see that (again using $n-2=1$):

$$
\begin{aligned}
G_1+G_2 &= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k-x_0)^2-(x_1-x_0)^2+c\sum_i(x_1-x_i)(x_k-x_1)\right)\right)\\
&= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k-x_0+x_1-x_0)(x_k-x_1)-c\sum_i x_i(x_k-x_1)\right)\right)\\
&= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}(x_k-x_1)\left(x_k+x_1+x_0-c\sum_i x_i\right)\right)
\end{aligned}
$$

Then we can relabel indices and see that $c(G_1+G_2)=\partial_0 g$, so the Dunkl operator is 0 as desired.

12.2 $D_1 g$

We see that $D_1 g=\partial_1 g-c\sum_{i\neq 1}\frac{g-s_{1i}g}{x_1-x_i}$.

We consider the partial derivative.

$$
\begin{aligned}
\partial_1 g &= \partial_1\left(\frac{1}{c(c+2)}\left(x_0^3 - x_1^3 - c\left(\sum_i (x_1-x_0)(x_i-x_1)(x_i-x_0)\right) - c^2\left(\sum_{i<j}(x_1-x_0)(x_i-x_j)^2\right)\right)\right)\\
&= \frac{1}{c(c+2)}\left(c\left(\sum_{i\geq 2}(x_0-x_i)(x_0+x_1+x_i)\right) - c^2\left(\sum_{i<j}\partial_1((x_1-x_0)(x_i-x_j)^2)\right)\right)\\
&= \frac{1}{c(c+2)}\left(c\left(\sum_{i\geq 2}(x_0-x_i)(x_0+x_1+x_i)\right) - c^2\left(\sum_{i\neq 1}\partial_1((x_1-x_0)(x_i-x_1)^2)\right) - c^2\left(\sum_{1\neq i<j\neq 1}\partial_1((x_1-x_0)(x_i-x_j)^2)\right)\right)\\
&= \frac{1}{c(c+2)}\left(c\left(\sum_{i\geq 2}(x_0-x_i)(x_0+x_1+x_i)\right) - c^2\left(\sum_{i\geq 2}(x_i-x_1)(x_i-x_0)\right) - c^2\left(\sum_{1\neq i<j\neq 1}\partial_1((x_1-x_0)(x_i-x_j)^2)\right)\right)\\
&= \frac{1}{c(c+2)}\left(c\left(\sum_{i\geq 2}(x_0-x_i)(x_0+x_1+x_i)\right) - c^2\left(\sum_{i\geq 2}(x_i-x_1)(x_i-x_0)\right) - c^2\left(\sum_{1\neq i<j\neq 1}(x_i-x_j)^2\right)\right)\\
&= \frac{c}{c(c+2)}\left(\left(\sum_{i\geq 2}(x_0-x_i)(x_0+x_1+x_i)\right) - c\left(\sum_{i\geq 2}(x_i-x_1)(x_i-x_0)\right) - c\left(\sum_{1\neq i<j\neq 1}(x_i-x_j)^2\right)\right)
\end{aligned}
$$

We note that in $\sum_{1\neq i<j\neq 1}(x_i-x_j)^2$ that in each term at least one of the x_i, x_j has index ≥ 2. Therefore $\sum_{1\neq i<j\neq 1}(x_i-x_j)^2 = \sum_{1\neq i<j\neq 1} -2(x_i-x_j)^2 = -\sum_{1\neq i,j;i\neq j}(x_i-x_j)^2 = -\left(\sum_{i\geq 2}\sum_{j\neq 1}(x_i-x_j)^2\right) - \left(\sum_{i\geq 2}(x_i-x_0)^2\right)$ because of the double-counting. Then since $n-1=-1$, we see that this is equal to $-\left(\sum_{i\geq 2}\sum_{j\neq 1}(x_i-x_j)^2-(x_i-x_0)^2\right) = \sum_{i\geq 2}\sum_{j\neq 1}(x_i-x_0)^2-(x_i-x_j)^2 = \sum_{i\geq 2}\sum_{j\neq 1}(x_0-x_j)(x_0+x_j+x_i) = \sum_{i\geq 2}\sum_{j\geq 2}(x_0-x_j)(x_0+x_j+x_i)$.

Therefore we have (there is a switch of indices):

$$
\begin{aligned}
\partial_1 g &= \frac{c}{c(c+2)}\left(\left(\sum_{i\geq 2}(x_0-x_i)(x_0+x_1+x_i)\right) - c\left(\sum_{i\geq 2}(x_i-x_1)(x_i-x_0)\right) - c\left(\sum_{i\geq 2}\sum_{j\geq 2}(x_0-x_i)(x_0+x_j+x_i)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}\left((x_0-x_i)(x_0+x_1+x_i)\right) - c\left((x_i-x_1)(x_i-x_0)\right) - c\left(\sum_{j\geq 2}(x_0-x_i)(x_0+x_j+x_i)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}(x_0-x_i)\left((x_0+x_1+x_i) - c(x_1-x_i) - c\left(\sum_{j\geq 2}(x_0+x_j+x_i)\right)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}(x_0-x_i)\left((x_0+x_1+x_i) - cx_1 + cx_i - cx_0 - cx_i - c\left(\sum_{j\geq 2}x_j\right)\right)\right)\\
&= \frac{c}{c(c+2)}\left(\sum_{i\geq 2}(x_0-x_i)\left((x_0+x_1+x_i) - c\left(\sum_j x_j\right)\right)\right)
\end{aligned}
$$

Let $G_1 = \frac{g - s_{01}g}{x_1 - x_0} = \frac{1}{c(c+2)} \left((x_0 - x_1)^2 + c\left(\sum_i (x_i - x_1)(x_i - x_0)\right) + c^2 \left(\sum_{i<j}(x_i - x_j)^2\right)\right)$. Let $G_2 = \sum_{i \geq 2} \frac{g - s_{1i}g}{x_1 - x_i}$.

$$
\begin{aligned}
G_2 &= \sum_{k \geq 2} \frac{g - s_{1k}g}{x_1 - x_k} \\
&= -\sum_{k \geq 2} \left(\frac{1}{c(c+2)} \left((x_k - x_1)^2 + c \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) + c^2 \sum_{i<j} (x_i - x_j)^2 \right) \right) \\
&= -\frac{1}{c(c+2)} \left(\sum_{k \geq 2} \left((x_k - x_1)^2 + c \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) \right) + (n-2)c^2 \sum_{i<j} (x_i - x_j)^2 \right) \\
&= -\frac{1}{c(c+2)} \left(\sum_{k \geq 2} \left((x_k - x_1)^2 + c \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) \right) + c^2 \sum_{i<j} (x_i - x_j)^2 \right)
\end{aligned}
$$

We note that $n - 2 - 1 = 0$ since $3 \mid n$. Therefore:

$$
\begin{aligned}
G_2 + G_1 = &-\frac{1}{c(c+2)} \left(\sum_{k \geq 2} \left((x_k - x_1)^2 + c \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) \right) + c^2 \sum_{i<j} (x_i - x_j)^2 \right) \\
&+ \frac{1}{c(c+2)} \left((x_0 - x_1)^2 + c \left(\sum_i (x_i - x_1)(x_i - x_0) \right) + c^2 \left(\sum_{i<j} (x_i - x_j)^2 \right) \right) \\
&= \frac{1}{c(c+2)} (- \left(\sum_{k \geq 2} \left((x_k - x_1)^2 + c \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) \right) \right) \\
&+ \left((x_0 - x_1)^2 + c \left(\sum_i (x_i - x_1)(x_i - x_0) \right) \right))
\end{aligned}
$$

We consider $-\sum_{k \geq 2} \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) + (\sum_i (x_i - x_1)(x_i - x_0))$. We note that $n - 2 = 1$, so this is equal to $-\sum_{k \geq 2} \sum_i (x_0 - x_i)(x_1 - x_0 + x_k - x_i) + \left(\sum_{k \geq 2} \sum_i (x_1 - x_i)(x_0 - x_i)\right)$; then this is equal to $\sum_{k \geq 2} \sum_i ((x_0 - x_i)(x_0 - x_k))$. Therefore we see that (again using $n - 2 = 1$):

$$
\begin{aligned}
G_1 + G_2 &= -\frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k - x_1)^2 - (x_0 - x_1)^2 - c\sum_i (x_0 - x_i)(x_0 - x_k)\right)\right) \\
&= -\frac{1}{c(c+2)}\left(\sum_{k\geq 2}\left((x_k - x_1 + x_0 - x_1)(x_k - x_0) - c\sum_i x_i(x_k - x_0)\right)\right) \\
&= -\frac{1}{c(c+2)}\left(\sum_{k\geq 2}(x_k - x_0)\left(x_k + x_1 + x_0 - c\sum_i x_i\right)\right) \\
&= \frac{1}{c(c+2)}\left(\sum_{k\geq 2}(x_0 - x_k)\left(x_k + x_1 + x_0 - c\sum_i x_i\right)\right)
\end{aligned}
$$

Then we can relabel indices and see that $c(G_1 + G_2) = \partial_1 g$, so the Dunkl operator is 0 as desired.

12.3 $D_2 g$

We see that $D_2 g = \partial_2 g - c\frac{g - s_{02}g}{x_2 - x_0} - c\frac{g - s_{12}g}{x_2 - x_1}$ because the rest cancel. Let $G = \frac{g - s_{02}g}{x_2 - x_0} + \frac{g - s_{12}g}{x_2 - x_1}$. From the above we see that:

$$
\begin{aligned}
G &= \frac{g - s_{02}g}{x_2 - x_0} + \frac{g - s_{12}g}{x_2 - x_1} \\
&= \frac{1}{c(c+2)}\left((x_2 - x_1)^2 - (x_2 - x_0)^2 + c\sum_i (x_0 - x_i)(x_1 - x_0 + x_2 - x_i) - (x_1 - x_i)(x_0 - x_1 + x_2 - x_i)\right) \\
&= \frac{1}{c(c+2)}\left((x_2 - x_1 + x_2 - x_0)(x_0 - x_1) + c\sum_i (x_1 - x_0)(x_0 + x_1 - x_2 - x_i)\right) \\
&= \frac{1}{c(c+2)}\left((x_2 - x_1 + x_2 - x_0)(x_0 - x_1) + c\sum_i x_i(x_0 - x_1)\right)
\end{aligned}
$$

We consider the partial derivative.

$$
\begin{aligned}
\partial_2 g &= \frac{x_1 - x_0}{c(c+2)} \left(-c(x_2 - x_1 + x_2 - x_0) - c^2 \sum_{i \neq 2} 2(x_2 - x_i) \right) \\
&= \frac{x_1 - x_0}{c(c+2)} \left(-c(x_2 - x_1 + x_2 - x_0) + c^2 \sum_{i \neq 2} x_2 - x_i \right) \\
&= \frac{x_1 - x_0}{c(c+2)} \left(-c(x_2 - x_1 + x_2 - x_0) + c^2 \sum_{i \neq 2} -x_i + c^2(n-1)x_2 \right) \\
&= \frac{x_1 - x_0}{c(c+2)} \left(-c(x_2 - x_1 + x_2 - x_0) - c^2 \sum_{i} x_i \right)
\end{aligned}
$$

We see that $\partial_2 g = cG$, so $D_2 g = 0$ as desired.

13 Conjecture for $p = 5, 5 \mid n$

Variables are $x_0, \ldots, x_{n-1}$.

Generators are:

x_0^{25} in degree 25, and $\sum x_i^5$ in degree 5. There are $n-2$ remaining generators in degree 3, each with the following form:

$\frac{c+1}{c}(x_1^5 - x_0^5) + 2x_0^4 x_1 + 3x_0 x_1^4 + \left(\sum_{i \geq 2} x_0^4 x_i + x_1 x_i^4 - x_0 x_i^4 - x_1^4 x_i\right) + \frac{2c+3}{c+2} x_0^2 x_1^3 + \frac{3c+2}{c+2} x_0^3 x_1^2 +$
$\frac{c+4}{c+2}\left(\sum_{i \geq 2} x_0^2 x_i^3 + x_1^3 x_i^2 - x_0^3 x_i^2 - x_1^2 x_i^3\right) + \frac{c}{c+2}\left(\sum_{i,j \geq 2; i<j} x_0 x_i^3 x_j + x_0 x_i x_j^3 - x_1 x_i^3 x_j - x_1 x_i x_j^3\right) +$
$\frac{2c}{c+2}\left(\sum_{i \geq 2} x_0^3 x_1 x_i - x_0 x_1^3 x_i\right) + \frac{2c}{c+2}\left(\sum_{i,j \geq 2; i<j} x_i x_j (x_1^3 - x_0^3)\right) +$
$\frac{c^2+4c}{c^2+1}\left(\sum_{i \geq 2} x_0 x_1^2 x_i^2 - x_0^2 x_1 x_i^2\right) + \frac{c^2+4c}{c^2+1}\left(\sum_{i,j \geq 2; i<j} x_1 x_i^2 x_j^2 - x_0 x_i^2 x_j^2\right) +$
$\frac{2c^3+3c}{c^2+1}\left(\sum_{i,j \geq 2; i<j} x_1^2 x_i^2 x_j + x_1^2 x_i x_j^2 - x_0^2 x_i x_j^2 - x_0^2 x_i^2 x_j\right) + \frac{c^2}{c^2+1}\left(\sum_{i,j,k \geq 2; i<j<k} x_0^2 x_i x_j x_k - x_1^2 x_i x_j x_k\right) +$
$\frac{2c^2}{c^2+1}\left(\sum_{i,j \geq 2; i<j} x_0 x_1^2 x_i x_j - x_0^2 x_1 x_i x_j\right) +$
$\frac{2c^2}{c^2+1}\left(\sum_{i,j,k \geq 2; i<j<k} x_1 x_i^2 x_j x_k + x_1 x_i x_j^2 x_k + x_1 x_i x_j x_k^2 - x_0 x_i^2 x_j x_k - x_0 x_i x_j^2 x_k - x_0 x_i x_j x_k^2\right)$

It is defintely possible to factor out $x_1 - x_0$ from this.

(The other generators are created from this one by switching x_1 with x_k for some $k \geq 2$.)

13.1 x_0^9

This is the final generator. We note that all partial derivatives are 0, so we disregard them. For Dunkl operators other than D_0, the only relevant term is $\frac{x_0^9 - x_k^9}{x_k - x_0} = (x_k - x_0)^8$. We will show this is in the ideal. We note that then $D_0(x_0^9) = -c \sum_{k \geq 1} \frac{x_0^9 - x_k^9}{x_0 - x_k}$ will also be in the ideal.

We therefore need only consider the case D_1 since all others will be symmetric and follow.

$\frac{x_0^9 - x_1^9}{x_1 - x_0} = -\sum_{i=0}^{8} x_0^i x_1^{8-i}$.

We note that $D_0(x_0^9) = -c\sum_{k\geq 1} \frac{x_0^9 - x_k^9}{x_0 - x_k} = -c\sum_{i=0}^{8} x_0^i(\sum_j x_j^{8-i})$.

Let $m_{i,j} = \sum_{k=0}^{8} x_i^k x_j^{8-k}$ and $g_{i,j}$ be the generators described above. Ex: $g_{0,1}$ is the generator we were working with above.

We wish to write $m_{0,1} = \sum_{i=1}^{5} p_i g_{0,i}$ where p_i is a homogeneous degree 5 polynomial for all i.

We must consider the symmetries. We note that $g_{i,j} = -g_{j,i}, g_{i,j} - g_{k,j} = g_{i,k}$ and $g_{i,j} - g_{i,k} = g_{k,j}$ for all i, j, k. We also note that $g_{i,i} = 0$ for all i, and $\sum_{j=0}^{5} g_{i,j} = \frac{c+1}{c}\sum_{j=0}^{5} x_j^3$ for all i.

Let s_{ij} be the transposition switching x_i and x_j. By letting these act on $m_{0,1}$ we see that we must have for all $i, j \geq 2$ that $s_{ij}p_k = p_k$ for $k \neq i, k \neq j$ and $s_{ij}p_i = p_j, s_{ij}p_j = p_i$.

We also note that $s_{01}m_{0,1} = m_{0,1}$ and $s_{01}g_{0,1} = -g_{0,1}$, while $s_{0,1}g_{0,k}$ for $k \geq 2$ is $g_{1,k} = g_{0,k} - g_{0,1}$.

Then $m_{0,1} = -(s_{0,1} * p_1) * g_{0,1} + \sum_{i=2}^{5}(s_{0,1}p_i) * (g_{0,i} - g_{0,1})$.

From this we see that $-\sum_{i=1}^{5} s_{0,1}p_i = p_1$ and $s_{0,1}p_i = p_i$ for $i \geq 2$. This means that $p_1 + s_{0,1}p_1 + \sum_{i=2}^{5} p_i = 0$.

14 Conjecture for general $p \mid n$

Variables are $x_0, \dots, x_{n-1}$.

Generators are:

$x_0^{p^2}$ in degree p^2, and $\sum x_i^p$ in degree p. There are $n-2$ remaining generators in degree p. It is clear that each such generator contains a term of the form $\frac{c+1}{c}(x_k^p - x_0^p)$. If we assume we are in the generator with $k = 1$, then the generator also contains a term $\left(\sum_{i\geq 2} x_0^{p-1}x_i + x_1 x_i^{p-1} - x_0 x_i^{p-1} - x_1^{p-1}x_i\right)$

15 $p = 3, 3 \mid n$, $n-1$ case, $n-2$ case

In the case where we use the $n-1$ representation, the Hilbert polynomial appears to be $\left(\frac{1-t^p}{1-t}\right)^{n-1}$.

There are $n-1$ generators in degree 3. If we choose as basis $e_i = x_i - x_0$ for $i = 1, \dots, n-1$ we will find that these generators are the same as the ones in the n-dimensional case, which we can express in terms of the e_i. Therefore we already know that they are killed.

We note that in this expression of the generators, the monomial e_i^3 appears only in the ith generator with nonzero coefficient; therefore these generators must be linearly independent. Let I be the ideal generated by these generators.

Therefore to show that A/I is a complete intersection, we must show that it is finite dimensional. We will do this by showing that e_i^7 is in the ideal for all i. TODO

Then we see that the Hilbert polynomial of A/I is $h_{A/I}(t) = (t^2 + t + 1)^{n-1}$. By Proposition 3.4 in http://arxiv.org/abs/1107.0504, we see that the Hilbert polynomial of A/J is $(t^2 + t + 1)^{n-1}h(t^3)$ for some polynomial h with nonnegative integer coefficients; since the Dunkl operators kill the generators of I, $I \subseteq J$, so $h_{A/I}(t) \geq h_{A/J}(t)$ coefficientwise; however by this restriction of the form of $h_{A/J}(t)$, we see that the only possible choice for h is $h(t) = 1$. Therefore $h_{A/I}(t) = h_{A/J}(t)$, so $I = J$ and these $n-1$ generators generate the whole ideal.

In the case $3 \mid n$ where we use the $n-2$ representation, the Hilbert polynomial appears to be $\left(\frac{1-t^p}{1-t}\right)^{n-2}$.

There are $n-3$ generators in degree 3. If we choose as basis $e_i = x_i - x_0$ for $i = 1, \ldots, n-2$ with $e_{n-1} = -\sum_{i=1}^{n-2} e_i$, we will find that these generators are the same as the ones in the n-dimensional case and the $n-1$ dimensional case, which we can express in terms of the e_i (the last generator is the negative of the sum of the others and therefore can be disregarded).

TODO:

$n = 3$:

$$(\tfrac{1}{c^2+2})x_0^4 + (\tfrac{2c^2+2}{c^2+2})x_0x_1^3 + (\tfrac{2c}{c+2})x_1^4$$

$$(\tfrac{1}{c^2+2})x_0^4 + (\tfrac{c}{c+2})x_0^2x_1^2 + (\tfrac{c^2}{c^2+2})x_0x_1^3$$

$n = 4$:

$$(\tfrac{1}{c^2+2})x_0^4+(\tfrac{2c^2+2}{c^2+2})x_0x_1^3+(\tfrac{2c}{c+2})x_1^4+(\tfrac{2c^5+c^4+2c^3+c^2+2c+2}{c^3+2c^2+c+2})x_0x_1^2x_2+(\tfrac{c^6+c^5+c^4+c^3+2c^2+1}{c^4+2c^3+c^2+2c})x_1^3x_2+(\tfrac{2c^5+2c^3+c^2+2c+1}{c^4+2})x_0x_1x_2^2+$$
$$(\tfrac{c^4+2c^3+2c^2}{c^2+2})x_1^2x_2^2 + (\tfrac{2c^2+2}{c^2+2})x_0x_2^3 + (\tfrac{2c^7+c^4+2c^3+2c^2+2c+2}{c^5+2c})x_1x_2^3 + (\tfrac{2c}{c+2})x_2^4$$

$$(\tfrac{1}{c^2+2})x_0^4+(\tfrac{c}{c+2})x_0^2x_1^2+(\tfrac{c^2}{c^2+2})x_0x_1^3+(\tfrac{2c^2+2c+1}{c^2+2})x_0^2x_1x_2+(\tfrac{c^7+2c^5+2c^4+2c^3+2c^2+2}{c^6+2c^5+2c^2+c})x_0x_1^2x_2+(\tfrac{c^6+2c^4+2c^3+c+2}{c^4+2})x_1^3x_2+$$
$$(\tfrac{2c^2+2c+1}{c^2+2})x_0^2x_2^2+(\tfrac{c^6+2c^5+2c^4+2c^3+2c+1}{c^6+2c^5+2c^2+c})x_0x_1x_2^2+(\tfrac{2c^7+c^6+2c^5+c^4+c^3+1}{c^5+2c})x_1^2x_2^2+(\tfrac{2c^6+2c^4+2c^2+c+2}{c^4+c^2})x_0x_2^3+(\tfrac{c^6+c^5+2c^4+c^2+c+2}{c^4+c^3+c^2+c})x_1x_2^3+$$
$$(\tfrac{c^6+c^5+c^3+c^2+2c+1}{c^5+2c^4+c^3+2c^2})x_2^4$$

$$(\tfrac{1}{c^2+2})x_0^4+(\tfrac{c^7+c^6+c^5+c^4+2c+1}{c^5+2c})x_0^2x_1^2+(\tfrac{2c^7+c^4+2c^3+c^2+c+1}{c^5+c^4+c^3+c^2})x_0x_1^3+(\tfrac{2c^6+c^4+c^3+2c+1}{c^4+2c^3+c^2+2c})x_1^4+(\tfrac{c^6+2c^5+2c^4+c^2+2c+2}{c^5+2c})x_0^2x_1x_2+$$
$$(\tfrac{2c^7+c^5+c^3+1}{c^5+c^4+2c^3+c^2+c})x_0x_1^2x_2+(\tfrac{c^5+2c^3+c^2+c+1}{c^3+c^2})x_1^3x_2+(\tfrac{c}{c+2})x_0^2x_2^2+(\tfrac{2c^7+2c^4+c^3+c^2+1}{c^5+c^4+2c^3+c^2+c})x_0x_1x_2^2+(\tfrac{2c^7+c^6+2c^5+c^4+c^3+1}{c^5+2c})x_1^2x_2^2+$$
$$(\tfrac{c^2}{c^2+2})x_0x_2^3 + (\tfrac{2c^6+2c^5+2c^3+2c^2+c+2}{c^5+2c})x_1x_2^3$$

$n = 5$:

$$(\tfrac{1}{c^2+2})x_0^4+(\tfrac{2c^2+2}{c^2+2})x_0x_1^3+(\tfrac{2c}{c+2})x_1^4+(\tfrac{2c^5+c^4+2c^3+c^2+2c+2}{c^3+2c^2+c+2})x_0x_1^2x_2+(\tfrac{c^6+c^5+c^4+c^3+2c^2+1}{c^4+2c^3+c^2+2c})x_1^3x_2+(\tfrac{2c^5+2c^3+c^2+2c+1}{c^4+2})x_0x_1x_2^2+$$
$$(\tfrac{c^4+2c^3+2c^2}{c^2+2})x_1^2x_2^2+(\tfrac{2c^2+2}{c^2+2})x_0x_2^3+(\tfrac{2c^7+c^4+2c^3+2c^2+2c+2}{c^5+2c})x_1x_2^3+(\tfrac{2c}{c+2})x_2^4+(\tfrac{c^{18}+c^{17}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+c^8+c^7+c^3+c^2}{c^{14}+2c^{11}+2c^{10}+c^9+2c^7+c^6+2c^4+2})x_0^2x_1x_3+$$
$$(\tfrac{2c^{16}+c^{13}+c^{11}+c^9+c^8+c^6+c^3+c+2}{c^{12}+c^{11}+c^9+c^8+c^6+c^4+2c^3+2c^2+2c})x_0x_1^2x_3+(\tfrac{c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+c^{11}+c^{10}+2c^7+2c^6+2c^5+2c^4+c^2+2}{c^{15}+2c^{13}+c^{12}+2c^{11}+2c^8+c^7+c^6+2c^5+2c^4+c^2})x_1^3x_3+$$
$$(\tfrac{c^{19}+c^{18}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+c^9+c^8+c^4+c^3}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0^2x_2x_3+(\tfrac{c^{19}+c^{18}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+c^9+c^8+c^4+c^3}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0x_1x_2x_3+(\tfrac{c^{21}+c^{19}+2c^{18}+c^{16}+c^{14}+}{c^{18}+2c^{17}+2c^{16}}$$
$$(\tfrac{2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+c^{12}+c^{11}+2c^9+2c^4+c^3+2c^2+c}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0x_2^2x_3+(\tfrac{2c^{18}+c^{17}+c^{16}+c^{14}+2c^{12}+c^{10}+c^8+2c^4+2c^3+c^2+2c+1}{c^{17}+2c^{16}+2c^{15}+2c^{11}+2c^6+c^5+2c^4+2c^3+c^2+c+2})x_1x_2^2x_3+$$
$$(\tfrac{c^{20}+2c^{18}+2c^{17}+c^{16}+c^{15}+c^{12}+2c^{11}+2c^{10}+c^4+2c^3+c^2+2c+1}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_2^3x_3 + (\tfrac{c^{18}+c^{17}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+c^8+c^7+c^3+c^2}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0^2x_3^2 +$$
$$(\tfrac{2c^{20}+c^{18}+c^{17}+2c^{16}+2c^{15}+c^{14}+c^{13}+2c^{11}+c^{10}+c^9+2c^8+2c^6+c^4+2c^3+2c^2+2c+1}{c^{16}+c^{15}+2c^{13}+c^{12}+c^{10}+2c^9+c^7+2c^6+2c^5+2c^2+2c})x_0x_1x_3^2+(\tfrac{2c^{20}+2c^{18}+2c^{17}+c^{16}+c^{14}+c^{13}+c^{11}+2c^{10}+2c^8+c^7+c^6+2c}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4}$$
$$(\tfrac{2c^{20}+2c^{19}+c^{18}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+2c^8+c^7+2c^6+2c^5+c}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_0x_2x_3^2+(\tfrac{c^{22}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{14}+c^7+2c^6+c^5+2c^4+c^2+1}{c^{18}+2c^{17}+2c^{16}+2c^{12}+2c^7+c^6+2c^5+2c^4+c^3+c^2+2c})x_1x_2x_3^2$$
$$(\tfrac{2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+c^{15}+2c^{12}+c^{11}+2c^{10}+2c^8+c^6+2c^5+2c^3}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_2^2x_3^2+(\tfrac{2c^{19}+c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{12}+c^{10}+2c^8+2c^7+2c^2+1}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_0x_3^3+$$
$$(\tfrac{c^{20}+c^{19}+2c^{18}+c^{16}+c^{15}+2c^{10}+2c^9+2c^7+c^6+c^5+2c^4+2c^3+c^2+1}{c^{16}+c^{14}+2c^{13}+c^{12}+c^9+c^8+c^4+c^2})x_1x_3^3+(\tfrac{c^{20}+2c^{18}+c^{15}+2c^{14}+c^{12}+2c^{11}+2c^8+2c^7+c^6+c^5+2c^4+2}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_2x_3^3+$$
$$(\tfrac{c^{18}+2c^{16}+2c^{15}+c^{14}+2c^{13}+2c^{10}+c^8+2c^7+2c^6+c^5+c^3}{c^{15}+2c^{14}+2c^{12}+2c^{10}+2c^9+2c^8+2c^7+2c^6+2c^5+c^4+2c+1})x_3^4$$

$$(\tfrac{1}{c^2+2})x_0^4+(\tfrac{c}{c+2})x_0^2x_1^2+(\tfrac{c^2}{c^2+2})x_0x_1^3+(\tfrac{2c^2+2c+1}{c^2+2})x_0^2x_1x_2+(\tfrac{c^7+2c^5+2c^4+2c^3+2c^2+2}{c^6+2c^5+2c^2+c})x_0x_1^2x_2+(\tfrac{c^6+2c^4+2c^3+c+2}{c^4+2})x_1^3x_2+$$
$$(\tfrac{2c^2+2c+1}{c^2+2})x_0^2x_2^2+(\tfrac{c^6+2c^5+2c^4+2c^3+2c+1}{c^6+2c^5+2c^2+c})x_0x_1x_2^2+(\tfrac{2c^7+c^6+2c^5+c^4+c^3+1}{c^5+2c})x_1^2x_2^2+(\tfrac{2c^6+2c^4+2c^2+c+2}{c^4+c^2})x_0x_2^3+(\tfrac{c^6+c^5+2c^4+c^2+c+2}{c^4+c^3+c^2+c})x_1x_2^3+$$

$$(\frac{c^6+c^5+c^3+c^2+2c+1}{c^5+2c^4+c^3+2c^2})x_2^4+(\frac{c^{23}+c^{22}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{13}+2c^{11}+2c^9+c^8+2c^7+2c^6+2c^5}{c^{19}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^{10}+c^9+c^7+2c^6+2c^4+c^2+c+2})x_0^3x_3+(\frac{2c^{25}+c^{22}+2c^{21}+2c^{20}+2c^{19}+2c^{18}+2c^{16}+c}{c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{15}+}$$
$$(\frac{c^{26}+c^{25}+2c^{24}+c^{21}+c^{20}+2c^{19}+c^{18}+2c^{17}+2c^{16}+c^{15}+c^{12}+2c^{11}+c^9+2c^8+2c^6+c^5+2c^4+2c^3+1}{c^{22}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{11}+c^7+c^6+2c^5+c^3+2c^2})x_0x_1^2x_3+(\frac{2c^{22}+2c^{20}+2c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+c^{14}+c^{1}}{c^{20}+c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^9+c}$$
$$(\frac{c^{24}+c^{23}+2c^{22}+2c^{21}+c^{20}+c^{18}+c^{17}+c^{15}+c^{14}+c^{12}+2c^{11}+c^{10}+c^9+2c^8+2c^7+c^6+c^5+c^4+c^3+2c^2+2}{c^{21}+2c^{20}+c^{18}+c^{16}+2c^{15}+2c^{13}+c^{12}+2c^{10}+c^9+c^8+c^7+2c^6+c^5+c^4+c^2+c})x_0^2x_2x_3+(\frac{c^{26}+c^{25}+2c^{24}+c^{22}+c^{20}+c^{18}+c^{17}+2c^{16}+2}{c^{22}+c^{21}+c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+c}$$
$$(\frac{c^{24}+2c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+2c^{14}+c^{13}+2c^{10}+2c^9+c^8+c^7+c^6+c^4+2c+2}{c^{20}+c^{18}+2c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{11}+2c^9+c^5+c^4+2c^3+c+2})x_1^2x_2x_3+(\frac{c^{22}+c^{21}+c^{20}+c^{19}+c^{17}+c^{15}+2c^{13}+c^{11}+c^{10}+c^9+c^8+}{c^{20}+c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^9+c^6+2c^4}$$
$$(\frac{2c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^9+2c^8+2c^7+2c^6+2c^4+c^2+c+2}{c^{18}+c^{16}+2c^{13}+2c^{11}+c^9+c^7+c^5+2c^3+c^2})x_1x_2^2x_3+(\frac{c^{24}+c^{21}+c^{20}+c^{19}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{11}+2c}{c^{20}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+c^{11}+c^{10}}$$
$$(\frac{2c^{26}+c^{25}+2c^{23}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{12}+c^{11}+2c^{10}+2c^8+c^5+2c^4+2c^3+2c^2+c+1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+c^6+c^5+c^3+c^2})x_0^2x_3^2+(\frac{2c^{25}+2c^{24}+c^{21}+2c^{20}+c^{19}+c^{16}+2c^{13}+2c^{12}+2c}{c^{21}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{15}+c^{13}+2c}$$
$$(\frac{c^{23}+2c^{22}+c^{21}+c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+2c^{12}+2c^{11}+2c^{10}+c^6+2c^4+c^2+2c+2}{c^{20}+2c^{19}+c^{18}+c^{16}+c^{15}+c^{13}+2c^{12}+2c^{11}+2c^{10}+c^9+2c^7+c^6+c^5+2c^4+2c^3+2c^2})x_1^2x_3^2+(\frac{c^{26}+c^{25}+2c^{24}+2c^{23}+2c^{19}+2c^{17}+2c^{16}+c^{15}+c^{12}+c^{11}+c^9+2c^8+c}{c^{22}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{11}+c^7+c^6+2c^5+}$$
$$(\frac{2c^{27}+c^{26}+c^{24}+c^{23}+c^{22}+c^{21}+c^{19}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{14}+2c^{13}+c^{10}+2c^7+2c^6+2c^5+2c^3+c^2+c+2}{c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^8+2c^7+2c^5+c^4+2c^2})x_1x_2x_3^2+(\frac{2c^{25}+2c^{24}+2c^{23}+c^{22}+2c^{20}+2c^{19}+2c}{c^{21}+2c^{20}+c^{18}+c^{16}+2c^{15}+}$$
$$(\frac{c^{27}+c^{25}+2c^{24}+2c^{23}+2c^{22}+2c^{21}+c^{20}+c^{19}+c^{16}+2c^{15}+2c^{13}+2c^{12}+2c^{11}+2c^8+c^7+2c^6+2c^4+c^3+c^2+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_3^3+(\frac{2c^{26}+c^{25}+2c^{24}+c^{18}+c^{15}+c^{13}+c^{12}+c}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}}$$
$$(\frac{c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{21}+2c^{18}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{12}+c^{10}+2c^9+2c^8+2c^7+2c^5+2c^3+c^2+2c+1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+c^6+c^5+c^3+c^2})x_2x_3^3+(\frac{c^{23}+c^{22}+c^{21}+c^{20}+c^{18}+2c^{17}+c^{16}+2}{c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{14}}$$

$$(\frac{1}{c^2+2})x_0^4+(\frac{c^7+c^6+c^5+c^4+2c+1}{c^5+2c})x_0^2x_1^2+(\frac{2c^7+c^4+2c^3+c^2+c+1}{c^5+c^4+c^3+c^2})x_0x_1^3+(\frac{2c^6+c^4+c^3+2c+1}{c^4+2c^3+c^2+2c})x_1^4+(\frac{c^6+2c^5+2c^4+c^2+2c+2}{c^5+2c})x_0^2x_1x_2+$$
$$(\frac{2c^7+c^5+c^3+1}{c^5+c^4+2c^3+c^2+c})x_0x_1^2x_2+(\frac{c^5+2c^3+c^2+c+1}{c^3+c^2})x_1^3x_2+(\frac{c}{c+2})x_0^2x_2^2+(\frac{2c^7+2c^4+c^3+c^2+1}{c^5+c^4+2c^3+c^2+c})x_0x_1x_2^2+(\frac{2c^7+c^6+2c^5+c^4+c^3+1}{c^5+2c})x_1^2x_2^2+$$
$$(\frac{c^2}{c^2+2})x_0x_2^3+(\frac{2c^6+2c^5+2c^3+2c^2+c+2}{c^5+2c})x_1x_2^3+(\frac{c^{23}+2c^{22}+c^{21}+2c^{20}+c^{18}+c^{17}+c^{16}+c^{15}+c^{13}+c^9+2c^5+c^4+c^3+2c^2+c}{c^{19}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^{10}+c^9+c^7+2c^6+2c^4+c^2+c+2})x_0^3x_3+$$
$$(\frac{2c^{24}+c^{23}+2c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+2c^9+c^8+c^6+c^5+c^4+2c^2+2c+1}{c^{21}+2c^{19}+c^{17}+2c^{16}+c^{14}+2c^{10}+2c^8+c^5+2c^4+c^3})x_0^2x_1x_3+(\frac{2c^{25}+2c^{24}+c^{23}+c^{22}+2c^{21}+2c^{1}}{c^{22}+c^{20}+2c^{18}+2c^{17}+}$$
$$(\frac{c^{25}+2c^{24}+2c^{20}+c^{19}+2c^{17}+c^{16}+c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+c^8+2c^7+2c^5+2c^4+c^3+2}{c^{21}+c^{19}+2c^{18}+2c^{15}+2c^{14}+2c^{10}+c^7+2c^5+2c^3})x_1^3x_3+(\frac{2c^{26}+2c^{24}+c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+2c^{14}+2c^{13}+c^{1}}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}}$$
$$(\frac{c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+c^{14}+2c^{13}+c^{12}+c^{10}+c^8+c^6+2c^5+2c^4+c^3+c+2}{c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^8+2c^7+2c^5+c^4+2c^2})x_0x_1x_2x_3+(\frac{2c^{26}+2c^{25}+c^{24}+c^{21}+2c^{20}+c^{19}+c^{18}+2c^{17}}{c^{22}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}}$$
$$(\frac{c^{23}+2c^{21}+2c^{19}+2c^{18}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+2c^5+2c^4+2c+2}{c^{19}+c^{17}+2c^{16}+2c^{13}+2c^{12}+2c^8+c^5+2c^3+2c})x_0x_2^2x_3+(\frac{c^{23}+2c^{21}+c^{19}+2c^{18}+2c^{16}+c^{13}+c^{12}+2c^{11}+2c^{10}+c^9+2c}{c^{19}+c^{15}+2c^{14}+c^{13}+c^{11}+c^9+2c^8+c^7+c^6+c}$$
$$(\frac{2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{18}+c^{15}+c^{14}+c^{13}+c^{12}+c^{11}+2c^9+c^6+c^5+c^2+2c+2}{c^{21}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+c^{12}+c^{11}+c^9+2c^8+2c^6+c^4+c^3+2c^2})x_2^3x_3+(\frac{2c^{27}+c^{24}+c^{23}+c^{18}+c^{17}+c^{15}+2c^{13}+2c^{10}+2c^8+2c^5+c^4+2c^3+c^2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6}$$
$$(\frac{c^{24}+2c^{22}+2c^{21}+c^{20}+c^{19}+c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{12}+2c^{10}+2c^8+2c^6+2c^5+c^3+2c^2+2c+2}{c^{20}+2c^{19}+2c^{17}+c^{16}+c^{15}+c^{14}+2c^{13}+c^{11}+c^9+c^8+2c^7+2c^4+c^3})x_0x_1x_3^2+(\frac{2c^{23}+2c^{22}+c^{21}+c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+2c^{14}+}{c^{19}+c^{17}+c^{16}+2c^{15}+c^{12}+2c^{1}}$$
$$(\frac{2c^{24}+2c^{23}+2c^{22}+2c^{21}+c^{19}+2c^{17}+2c^{16}+c^{14}+2c^{13}+c^8+2c^7+c^6+c^5+2c^2+2}{c^{20}+2c^{19}+2c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^9+c^8+2c^7+c^6+c^4+c^3+2c^2+2c})x_0x_2x_3^2+(\frac{2c^{28}+c^{26}+c^{24}+c^{22}+2c^{21}+2c^{20}+2c^{18}+2c^{17}+2c^{16}+c^{14}+}{c^{24}+c^{23}+c^{22}+c^{21}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+2c}$$
$$(\frac{2c^{26}+2c^{25}+2c^{23}+c^{22}+c^{21}+2c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+c^8+2c^7+c^6+c^5+2c^4+2c^3+c^2+2c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_2^2x_3^2+$$
$$(\frac{c^{27}+c^{26}+2c^{25}+2c^{24}+c^{23}+c^{22}+c^{21}+2c^{19}+c^{17}+c^{14}+2c^{13}+c^{12}+c^{10}+c^8+2c^7+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_3^3+(\frac{c^{28}+c^{27}+c^{26}+c^{24}+2c^{23}+2c^{22}+2c^{20}+c^{18}+c^{15}+c^{14}+c^{13}+2c^{11}+2c}{c^{24}+2c^{23}+c^{21}+c^{19}+2c^{18}+2c^{16}+c^{15}+2c^{13}+c^{12}+c^{11}}$$
$$(\frac{c^{25}+2c^{23}+2c^{22}+c^{21}+c^{20}+2c^{17}+2c^{16}+c^{14}+c^{13}+2c^{12}+c^{11}+c^{10}+2c^7+2c^6+2c^5+c^4+c^3+2c^2+1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+c^6+c^5+c^3+c^2})x_2x_3^3+(\frac{c^{26}+c^{25}+c^{24}+c^{23}+c^{21}+2c^{20}+2c^{18}+2c^{17}+c^{16}+2c}{c^{23}+c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{17}+c^{16}+c^{1}}$$

$$(\frac{1}{c^2+2})x_0^4+(\frac{c^{21}+c^{19}+2c^{18}+c^{17}+c^{16}+c^{13}+c^{10}+c^9+c^8+2c^7+c^6+2c^5+c^4+2c^2+2c}{c^{17}+2c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+c^9+c^8+2c^6+c^5+2c^3+2c^2+c+2})x_0^3x_1+(\frac{2c^{24}+c^{21}+2c^{20}+c^{19}+2c^{17}+2c^{16}+c^{10}+c^8+c^7+2c^6+c^5+c^4+2c}{c^{20}+2c^{19}+c^{17}+c^{15}+2c^{14}+2c^{12}+c^{11}+2c^9+c^8+c^7+c^6+2c^5+c^4}$$
$$(\frac{c^{27}+2c^{26}+c^{25}+c^{24}+2c^{19}+2c^{15}+c^{13}+2c^{10}+c^9+2c^8+c^7+2c^6+2c^4+c^3+c^2+2c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_1^3+(\frac{c^{22}+c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+2c^{11}+c^9+c^8+c^5+c^3+}{c^{20}+2c^{19}+2c^{18}+2c^{14}+2c^9+c^8+2c^7+2c^6+c^5+c^4+2c^3}$$
$$(\frac{c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^{10}+2c^8+c^7+2c^5+c^4+2c^3+2c}{c^{19}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+2c^{10}+c^9+c^7+2c^6+2c^4+c^2+c+2})x_0^3x_2+(\frac{2c^{27}+2c^{26}+2c^{25}+c^{24}+2c^{23}+c^{22}+c^{20}+c^{19}+c^{17}+2c^{1}}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+}$$
$$(\frac{2c^{20}+2c^{19}+c^{17}+c^{15}+c^{11}+c^{10}+c^8+c^7+2c^4+2c^3+c^2+c+1}{c^{16}+2c^{15}+c^{14}+2c^{12}+c^{10}+c^9+c^8+2c^7+2c^5+c^4+c^3+c^2})x_0x_1^2x_2+(\frac{c^{25}+2c^{24}+c^{23}+2c^{21}+c^{20}+c^{19}+c^{16}+2c^{15}+2c^{14}+c^{13}+c^{12}+2c^{10}+c^9+c^6+c^4+2}{c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{11}+2c^{10}+2c^9+2c^8+2c^7+2c^5+c^4}$$
$$(\frac{2c^{21}+c^{19}+2c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{11}+c^{10}+2c^9+2c^7+2c^6+c^4+c^3+2c^2+2c+2}{c^{17}+c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^7+2c^6+2c^4+2c^3+c^2})x_0^2x_2^2+(\frac{2c^{27}+c^{26}+c^{22}+c^{19}+c^{18}+c^{15}+c^{13}+c^{12}+2c^{10}+c^9+c^8+}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+}$$
$$(\frac{2c^{27}+c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+c^{19}+c^{17}+2c^{16}+c^{15}+2c^{12}+c^{11}+c^8+c^7+2c^4+2c^3+c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_1^2x_2^2+(\frac{c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{13}}{c^{21}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+c^{12}+c^{11}}$$
$$(\frac{c^{26}+c^{25}+c^{23}+2c^{22}+2c^{21}+2c^{19}+2c^{18}+2c^{16}+2c^{13}+2c^{12}+c^{11}+c^8+2c^7+c^6+c^5+2c^4+c+2}{c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+c^{15}+c^{14}+2c^{12}+2c^{11}+2c^{10}+2c^9+2c^8+2c^6+c^5+c^4})x_1x_2^3+(\frac{c^{24}+2c^{23}+c^{22}+2c^{21}+c^{18}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}}{c^{21}+2c^{20}+c^{19}+c^{17}+c^{16}+c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+2c}$$
$$(\frac{2c^{17}+2c^{16}+2c^{13}+c^{11}+2c^{10}+2c^9+2c^8+2c^7+2c^6+2c^2+2c}{c^{14}+2c^{11}+2c^{10}+c^9+2c^7+c^6+2c^4+2})x_0^3x_3+(\frac{2c^{20}+c^{19}+c^{17}+c^{16}+c^{15}+2c^{14}+c^{11}+c^9+2c^7+c^6+c^4+2c+1}{c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^9+2c^7+c^4+2c^3+c^2+2c})x_0^2x_1x_3+$$
$$(\frac{2c^{27}+2c^{26}+2c^{23}+c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{18}+2c^{15}+2c^{14}+c^{12}+c^{11}+2c^8+2c^7+2c^6+2c^5+2c^4+1}{c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^8+2c^7+2c^5+c^4+2c^2})x_0x_1^2x_3+(\frac{2c^{25}+2c^{23}+c^{22}+2c^{21}+c^{19}+2c^{16}+c^{15}+2c^{13}+}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}}$$
$$(\frac{2c^{24}+c^{23}+c^{22}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+c^{14}+c^{13}+c^{11}+2c^8+c^6+2c^5+2c^2+c+1}{c^{20}+2c^{19}+2c^{18}+2c^{14}+2c^9+c^8+2c^7+2c^6+c^5+c^4+2c^3})x_0^2x_2x_3+(\frac{c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+2c^{11}+}{c^{21}+c^{20}+2c^{17}+c^{16}+2c^{15}+2c^{12}+2c^{11}+c^6+2}$$
$$(\frac{2c^{27}+c^{26}+c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{12}+2c^9+c^8+2c^7+2c^6+c^4+2c^3+2c^2+2c+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_1^2x_2x_3+$$
$$(\frac{2c^{27}+2c^{24}+2c^{19}+c^{18}+c^{15}+2c^{12}+c^{11}+c^5+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_2^2x_3+(\frac{2c^{26}+c^{25}+c^{24}+2c^{23}+2c^{22}+2c^{21}+2c^{18}+c^{17}+2c^{16}+c^{11}+2c^{10}+c^9}{c^{22}+c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{16}+c^{15}+c^{14}+2c^{11}+2c^{10}+2c^9+}$$
$$(\frac{c^{27}+2c^{25}+c^{23}+2c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{15}+c^{12}+c^{11}+2c^{10}+c^9+2c^8+2c^6+c^4+2c^3+2c+2}{c^{24}+2c^{23}+c^{21}+c^{19}+2c^{18}+2c^{16}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+2c^9+c^8+c^7+c^5+c^4})x_2^3x_3+(\frac{c^{19}+2c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+c^{10}+2c^9+2c^6+2c^5+c^4}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+}$$
$$(\frac{c^{25}+2c^{24}+c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{15}+2c^{14}+c^{13}+2c^{11}+c^8+2c^6+2c^5+2c^4+c^3+c^2+2c+2}{c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+2c^{13}+2c^{10}+c^9+2c^8+c^7+c^5+c^4+2c^3+2c^2})x_0x_1x_3^2+(\frac{c^{23}+2c^{22}+c^{21}+c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+2c^{12}}{c^{20}+2c^{19}+c^{18}+c^{16}+c^{15}+c^{13}+2c^{12}+2c^{11}+2c^{10}}$$
$$(\frac{c^{25}+2c^{24}+2c^{23}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+2c^9+c^8+c^6+2c^4+c^3+2c^2+c+1}{c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+2c^{13}+2c^{10}+c^9+2c^8+c^7+c^5+c^4+2c^3+2c^2})x_0x_2x_3^2+(\frac{c^{27}+2c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{2}}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+}$$
$$(\frac{2c^{26}+2c^{25}+2c^{23}+c^{22}+c^{21}+2c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+c^8+2c^7+c^6+c^5+2c^4+2c^3+c^2+2c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_2^2x_3^2+$$
$$(\frac{2c^{19}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{11}+2c^9+c^8+c^7+2c^6+2c^4}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_0x_3^3+(\frac{2c^{23}+2c^{22}+2c^{21}+2c^{20}+2c^{18}+c^{17}+2c^{16}+c^{12}+c^{10}+c^9+2c^8+c^7+c^6+c^5+c^4+1}{c^{20}+2c^{19}+c^{17}+c^{15}+2c^{14}+2c^{12}+c^{11}+2c^9+c^8+c^7+c^6+2c^5+c^4+c^3+c+1})x_1x_3^3$$
$$(\frac{2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{21}+c^{20}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+2c^{12}+2c^9+c^8+c^7+2c^5+2c^2+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_2x_3^3$$

$n = 6$:

$$(\frac{1}{c^2+2})x_0^4+(\frac{2c^2+2}{c^2+2})x_0x_1^3+(\frac{2c}{c+2})x_1^4+(\frac{2c^5+c^4+2c^3+c^2+2c+2}{c^3+2c^2+c+2})x_0x_1^2x_2+(\frac{c^6+c^5+c^4+c^3+2c^2+1}{c^4+2c^3+c^2+2c})x_1^3x_2+(\frac{2c^5+2c^3+c^2+2c+1}{c^4+2})x_0x_1x_2^2+$$
$$(\frac{c^4+2c^3+2c^2}{c^2+2})x_1^2x_2^2+(\frac{2c^2+2}{c^2+2})x_0x_2^3+(\frac{2c^7+c^4+2c^3+2c^2+2c+2}{c^5+2c})x_1x_2^3+(\frac{2c}{c+2})x_2^4+(\frac{c^{18}+c^{17}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+c^8+c^7+c^3+c^2}{c^{14}+2c^{11}+2c^{10}+c^9+2c^7+c^6+2c^4+2})x_0^2x_1x_3+$$
$$(\frac{2c^{16}+c^{13}+c^{11}+c^9+c^8+c^6+c^3+c+2}{c^{12}+c^{11}+c^9+c^8+c^6+c^4+2c^3+2c^2+2c})x_0x_1^2x_3+(\frac{c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+c^{11}+c^{10}+2c^7+2c^6+2c^5+2c^4+c^2+2}{c^{15}+2c^{13}+c^{12}+2c^{11}+2c^8+c^7+c^6+2c^5+2c^4+c^2})x_1^3x_3+$$
$$(\frac{c^{19}+c^{18}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+c^9+c^8+c^4+c^3}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0^2x_2x_3+(\frac{c^{19}+c^{18}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+c^9+c^8+c^4+c^3}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0x_1x_2x_3+(\frac{c^{21}+c^{19}+2c^{18}+c^{16}+c^{14}+}{c^{18}+2c^{17}+2c^{16}+}$$
$$(\frac{2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+c^{12}+c^{11}+2c^9+2c^4+c^3+2c^2+c}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0x_2^2x_3+(\frac{2c^{18}+c^{17}+c^{16}+c^{14}+2c^{12}+c^{10}+c^8+2c^4+2c^3+c^2+2c+1}{c^{17}+2c^{16}+2c^{15}+2c^{11}+2c^6+c^5+2c^4+2c^3+c^2+c+2})x_1x_2^2x_3+$$
$$(\frac{c^{20}+2c^{18}+2c^{17}+c^{16}+c^{15}+c^{12}+2c^{11}+2c^{10}+c^4+2c^3+c^2+2c+1}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_2^3x_3 + (\frac{c^{18}+c^{17}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+c^8+c^7+c^3+c^2}{c^{15}+c^{14}+2c^{12}+c^{11}+c^9+2c^8+c^6+2c^5+2c^4+2c+2})x_0^2x_3^2 +$$
$$(\frac{2c^{20}+c^{18}+c^{17}+2c^{16}+2c^{15}+c^{14}+c^{13}+2c^{11}+c^{10}+c^9+2c^8+2c^6+c^4+2c^3+2c^2+2c+1}{c^{16}+c^{15}+2c^{13}+c^{12}+c^{10}+2c^9+c^7+2c^6+2c^5+2c^2+2c})x_0x_1x_3^2+(\frac{2c^{20}+2c^{18}+2c^{17}+c^{16}+c^{14}+c^{13}+c^{11}+2c^{10}+2c^8+c^7+c^6+2c}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4}$$
$$(\frac{2c^{20}+2c^{19}+c^{18}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+2c^8+c^7+2c^6+2c^5+c}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_0x_2x_3^2+(\frac{c^{22}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{14}+c^7+2c^6+c^5+2c^4+c^2+1}{c^{18}+2c^{17}+2c^{16}+2c^{12}+2c^7+c^6+2c^5+2c^4+c^3+c^2+2c})x_1x_2x_3^2+$$
$$(\frac{2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+c^{15}+2c^{12}+c^{11}+2c^{10}+2c^8+c^6+2c^5+2c^3}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_2^2x_3^2+(\frac{2c^{19}+c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{12}+c^{10}+2c^8+2c^7+2c^2+1}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_0x_3^3+$$
$$(\frac{c^{20}+c^{19}+2c^{18}+c^{16}+c^{15}+2c^{10}+2c^9+2c^7+c^6+c^5+2c^4+2c^3+c^2+1}{c^{16}+c^{14}+2c^{13}+c^{12}+c^9+c^8+c^4+c^2})x_1x_3^3+(\frac{c^{20}+2c^{18}+c^{15}+2c^{14}+c^{12}+2c^{11}+2c^8+2c^7+c^6+c^5+2c^4+2}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^8+c^7+c^6+c^4+2c^2+1})x_2x_3^3+$$
$$(\frac{c^{18}+2c^{16}+2c^{15}+c^{14}+2c^{13}+2c^{10}+c^8+2c^7+2c^6+c^5+c^3}{c^{15}+2c^{14}+2c^{12}+2c^{10}+2c^9+2c^8+2c^7+2c^6+2c^5+c^4+2c+1})x_3^4+(\frac{2c^{28}+c^{27}+c^{26}+2c^{25}+c^{22}+c^{21}+c^{20}+c^{19}+c^{17}+2c^{16}+2c^{15}+2c^{13}+c^{12}+c^{11}+2c^{10}+c^9+2c^8+}{c^{23}+c^{22}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+2c^{12}+2c^{11}+2c^9+2c^7+c^6+2c^5}$$
$$(\frac{c^{32}+2c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{25}+c^{24}+2c^{23}+c^{21}+2c^{20}+2c^{19}+c^{17}+2c^{14}+c^{13}+2c^{12}+2c^{10}+2c^8+2c^6+c^5+c^4+2c+2}{c^{27}+2c^{25}+2c^{23}+c^{22}+2c^{21}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{15}+2c^{14}+2c^{12}+2c^{11}+c^{10}+2c^9+c^7+c^6+2c^5+2c^4})x_0x_1^2x_4+(\frac{2c^{26}+c^{25}+c^{24}+2c^{22}+2}{c^{21}+2c^{20}+2}$$
$$(\frac{2c^{28}+c^{27}+c^{26}+2c^{25}+c^{22}+c^{21}+c^{20}+c^{19}+c^{17}+2c^{16}+2c^{15}+2c^{13}+c^{12}+c^{11}+2c^{10}+c^9+2c^8+2c^6+2c^5+c^4+c+1}{c^{23}+2c^{22}+c^{21}+c^{18}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7+2c^4})x_0^2x_2x_4+(\frac{2c^{28}+c^{27}+c^{26}+2c^{25}+c^{22}+c^{21}+c^2}{c^{23}+2c^{22}+}$$
$$(\frac{2c^{20}+2c^{19}+2c^{18}+2c^{17}+c^{16}+c^{14}+2c^{13}+2c^{12}+c^{11}+c^{10}+c^9+c^8+2c^7+c^6+2c^3+c^2+2}{c^{17}+2c^{16}+c^{15}+2c^{13}+c^{11}+c^{10}+c^9+2c^8+2c^6+c^5+c^4+c^3})x_1^2x_2x_4+(\frac{c^{33}+c^{31}+c^{30}+2c^{29}+c^{27}+2c^{26}+c^{25}+c^{24}+c^{23}+2c^{22}+2c^{20}+}{c^{28}+c^{27}+2c^{26}+2c^{25}+2c^{24}+c^{21}+2c^{19}+2c^{18}}$$
$$(\frac{c^{33}+2c^{31}+2c^{29}+c^{27}+2c^{26}+2c^{25}+c^{24}+2c^{22}+2c^{21}+c^{17}+2c^{13}+2c^{11}+c^9+c^7+2c^6+2c^5+2c^3+1}{c^{29}+c^{28}+2c^{27}+2c^{26}+2c^{25}+c^{22}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{10}+c^9+2c^8+c^6+2c^5})x_1x_2^2x_4+(\frac{2c^{30}+2c^{27}+c^{26}+2c^{23}+c^{19}+c^{18}+2c^{16}+c^1}{c^{25}+c^{24}+2c^{22}+2c^{21}+c^{18}+}$$
$$(\frac{2c^{28}+c^{27}+c^{26}+2c^{25}+c^{22}+c^{21}+c^{20}+c^{19}+c^{17}+2c^{16}+2c^{15}+2c^{13}+c^{12}+c^{11}+2c^{10}+c^9+2c^8+2c^6+2c^5+c^4+c+1}{c^{23}+2c^{22}+c^{21}+c^{18}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7+2c^4})x_0^2x_3x_4+(\frac{2c^{30}+2c^{28}+c^{27}+2c^{25}+c^{23}+2c^{22}+}{c^{25}+2c^{24}+2c^{23}+2c^{22}+}$$
$$(\frac{2c^{23}+c^{21}+c^{20}+c^{19}+2c^{17}+2c^{15}+2c^{13}+2c^{12}+2c^{11}+2c^9+2c^8+c^7+2c^5+c^4+c^2+c+1}{c^{19}+c^{15}+2c^{14}+c^{13}+c^{11}+c^9+2c^8+c^7+c^6+c^5+c^4+2c^3})x_1^2x_3x_4+(\frac{2c^{30}+c^{28}+c^{27}+c^{26}+2c^{24}+c^{23}+2c^{22}+2c^{21}+c^{20}+c^{19}+2c^{17}+}{c^{25}+c^{24}+2c^{21}+2c^{19}+c^{18}+2c^{17}+c^{15}+c^{14}+2c}$$
$$(\frac{2c^{30}+c^{27}+c^{26}+c^{25}+2c^{23}+c^{22}+c^{21}+2c^{19}+c^{17}+c^{15}+c^{14}+c^{13}+2c^{11}+2c^{10}+c^9+c^5+2c^4+2c^3+2c^2+2c+2}{c^{26}+c^{25}+2c^{22}+2c^{20}+c^{19}+2c^{18}+c^{16}+c^{15}+2c^{13}+2c^{12}+c^{11}+c^9+c^6+2c^5+c^4})x_1x_2x_3x_4+(\frac{c^{29}+2c^{28}+c^{27}+c^{25}+2c^{24}+2c^{23}+c^{20}}{c^{25}+c^{24}+c^{23}+c^{22}+c^{21}+2c^2}$$
$$(\frac{c^{33}+c^{32}+2c^{29}+2c^{28}+2c^{27}+2c^{26}+c^{24}+c^{23}+2c^{21}+c^{20}+2c^{19}+c^{18}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+2c^8+c^7+2c^5+c^3+c+2}{c^{29}+c^{27}+2c^{25}+2c^{24}+2c^{23}+c^{22}+c^{19}+2c^{18}+c^{17}+c^{14}+c^{13}+2c^{11}+2c^{10}+c^9+c^6+c^4+2c^2})x_0x_3^2x_4+$$
$$(\frac{2c^{36}+c^{33}+2c^{31}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+2c^{25}+2c^{22}+2c^{21}+c^{19}+2c^{18}+c^{17}+c^{15}+2c^{14}+2c^{13}+c^{11}+2c^{10}+c^9+c^8+c^6+c^4+2c^3+2c+2}{c^{31}+2c^{30}+2c^{27}+c^{25}+2c^{24}+c^{23}+c^{22}+2c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{11}+2c^{10}+c^9+2c^8+c^7+2c^6+c^5})x_1x_3^2x_4+$$
$$(\frac{2c^{37}+c^{36}+2c^{35}+2c^{34}+2c^{33}+c^{32}+2c^{31}+2c^{30}+c^{28}+2c^{26}+2c^{23}+2c^{21}+2c^{20}+2c^{17}+c^{16}+c^{15}+2c^{14}+c^{12}+c^{11}+2c^{10}+2c^8+c^7+2c^6+c^5+c^4+2c^3+2}{c^{32}+2c^{31}+c^{30}+2c^{29}+2c^{28}+2c^{25}+2c^{24}+c^{22}+c^{21}+2c^{20}+2c^{19}+c^{17}+2c^{15}+2c^{14}+2c^{12}+2c^{11}+c^9+2c^8+c^7+2c^6+2c^5+c^4})x_2x_3^2x_4+$$
$$(\frac{c^{36}+c^{35}+2c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{28}+c^{27}+c^{26}+c^{25}+c^{22}+2c^{21}+c^{20}+2c^{18}+c^{17}+2c^{16}+c^{15}+2c^{14}+2c^{12}+2c^{11}+c^{10}+2c^9+c^7+2c^6+2c^5+c^4+2c^2+2}{c^{31}+c^{29}+2c^{27}+2c^{26}+2c^{25}+c^{24}+c^{21}+2c^{20}+c^{19}+c^{16}+c^{15}+2c^{13}+2c^{12}+c^{11}+c^8+c^6+2c^4})x_3^3x_4+$$
$$(\frac{c^{33}+c^{30}+2c^{28}+c^{27}+c^{26}+2c^{25}+2c^{21}+c^{20}+c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+2c^{13}+c^{12}+2c^9+2c^8+2c^6+c^5+2c+2}{c^{28}+2c^{26}+2c^{24}+c^{23}+2c^{22}+2c^{21}+c^{20}+c^{19}+c^{18}+2c^{16}+2c^{15}+2c^{13}+2c^{12}+c^{11}+2c^{10}+c^8+c^7+2c^6+2c^5})x_0x_1x_4^2+(\frac{c^{29}+c^{28}+c^{25}+2c^{24}+2c^{23}+c^{21}+2c}{c^{24}+2c^{22}+c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}}$$
$$(\frac{c^{31}+c^{29}+c^{28}+2c^{27}+2c^{25}+c^{24}+c^{22}+2c^{21}+2c^{20}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{10}+c^8+2c^7+c^6+c^5+2}{c^{26}+c^{25}+2c^{24}+2c^{23}+2c^{22}+c^{19}+2c^{17}+2c^{16}+c^{15}+2c^{14}+c^{13}+2c^{12}+2c^{11}+c^{10}+2c^7+c^6+2c^5+c^3+2c^2})x_0x_2x_4^2+(\frac{2c^{34}+c^{33}+c^{32}+2c^{31}+2c^{30}+2c^{29}+2c^2}{c^{29}+c^{28}+2c^{27}}$$
$$(\frac{c^{29}+c^{28}+2c^{25}+c^{24}+c^{23}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{14}+c^{10}+c^9+c^8+c^7+c^6+c^5+c^4+2c^2+1}{c^{24}+c^{23}+2c^{22}+2c^{21}+c^{19}+2c^{18}+c^{14}+c^{13}+2c^{12}+c^{11}+c^7+2c^5+c^4})x_2^2x_4^2+(\frac{2c^{33}+c^{32}+2c^{31}+2c^{30}+c^{27}+c^{26}+2c^{25}+c^{24}+2c^{23}+2c^{21}+2c}{c^{28}+2c^{27}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{22}+c^{21}+c}$$
$$(\frac{c^{37}+2c^{36}+c^{35}+2c^{33}+2c^{31}+2c^{30}+c^{29}+c^{27}+c^{25}+c^{23}+c^{22}+2c^{19}+c^{17}+c^{16}+2c^{14}+c^{12}+c^9+2c^8+2c^7+c^6+c^4+2c^3+2c^2+1}{c^{33}+2c^{32}+c^{31}+2c^{30}+2c^{29}+2c^{26}+2c^{25}+c^{23}+c^{22}+2c^{21}+2c^{20}+c^{18}+2c^{16}+2c^{15}+2c^{13}+2c^{12}+c^{10}+2c^9+c^8+2c^7+2c^6+c^5})x_1x_3x_4^2+(\frac{c^{33}+c^{32}+2c^{31}+2c^{30}+}{c^{30}+c^{29}+}$$
$$(\frac{c^{31}+c^{30}+2c^{29}+2c^{28}+2c^{27}+2c^{26}+2c^{25}+c^{24}+c^{22}+2c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{12}+c^{11}+2c^9+c^8+c^6+c^5+1}{c^{26}+c^{25}+2c^{22}+2c^{20}+c^{19}+2c^{18}+c^{16}+c^{15}+2c^{13}+2c^{12}+c^{11}+c^9+c^6+2c^5+c^4})x_3^2x_4^2+(\frac{2c^2+2}{c^2+2})x_0x_4^3+$$
$$(\frac{2c^{32}+c^{31}+c^{29}+2c^{26}+c^{24}+c^{22}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{14}+2c^{12}+c^{11}+2c^{10}+c^9+c^8+c^7+2c^6+2c^5+c+1}{c^{27}+2c^{26}+2c^{25}+2c^{24}+c^{23}+c^{22}+c^{20}+c^{17}+2c^{16}+2c^{15}+c^{14}+c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^6})x_1x_4^3+(\frac{2c^{32}+2c^{31}+c^{29}+c^{27}+2c^{25}+c^{24}+c^{21}+2c^{20}}{c^{27}+2c^{26}+c^{25}+2c^{23}+2c^{22}+2c^{21}+2c^{18}+}$$
$$(\frac{c^{36}+2c^{35}+c^{33}+2c^{31}+2c^{28}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+c^{19}+c^{18}+c^{16}+2c^{15}+c^{14}+c^{13}+c^{12}+c^{10}+2c^9+2c^7+c^6+c^5+c^2+c+1}{c^{32}+c^{30}+2c^{28}+2c^{27}+2c^{26}+c^{25}+c^{22}+2c^{21}+c^{20}+c^{17}+c^{16}+2c^{14}+2c^{13}+c^{12}+c^9+c^7+2c^5})x_3x_4^3+(\frac{2c}{c+2})x_4^4$$

$$(\frac{1}{c^2+2})x_0^4+(\frac{c}{c+2})x_0^2x_1^2+(\frac{c^2}{c^2+2})x_0x_1^3+(\frac{2c^2+2c+1}{c^2+2})x_0^2x_1x_2+(\frac{c^7+2c^5+2c^4+2c^3+2c^2+2}{c^6+2c^5+2c^2+c})x_0x_1^2x_2+(\frac{c^6+2c^4+2c^3+c+2}{c^4+2})x_1^3x_2+$$
$$(\frac{2c^2+2c+1}{c^2+2})x_0^2x_2^2+(\frac{c^6+2c^5+2c^4+2c^3+2c+1}{c^6+2c^5+2c^2+c})x_0x_1x_2^2+(\frac{2c^7+c^6+2c^5+c^4+c^3+1}{c^5+2c})x_1^2x_2^2+(\frac{2c^6+2c^4+2c^2+c+2}{c^4+c^2})x_0x_2^3+(\frac{c^6+c^5+2c^4+c^2+c+2}{c^4+c^3+c^2+c})x_1x_2^3+$$
$$(\frac{c^6+c^5+c^3+c^2+2c+1}{c^5+2c^4+c^3+2c^2})x_2^4+(\frac{c^{23}+c^{22}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{13}+2c^{11}+2c^9+c^8+2c^7+2c^6+2c^5}{c^{19}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^{10}+c^9+c^7+2c^6+2c^4+c^2+c+2})x_0^3x_3+(\frac{2c^{25}+c^{22}+2c^{21}+2c^{20}+2c^{19}+2c^{18}+2c^{16}+c}{c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{15}+}$$
$$(\frac{c^{26}+c^{25}+2c^{24}+c^{21}+c^{20}+2c^{19}+c^{18}+2c^{17}+2c^{16}+c^{15}+c^{12}+2c^{11}+c^9+2c^8+2c^6+c^5+2c^4+2c^3+1}{c^{22}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{11}+c^7+c^6+2c^5+c^3+2c^2})x_0x_1^2x_3+(\frac{2c^{22}+2c^{20}+2c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+c^{14}+c^1}{c^{20}+c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^9+c}$$
$$(\frac{c^{24}+c^{23}+2c^{22}+2c^{21}+c^{20}+c^{18}+c^{17}+c^{15}+c^{14}+c^{12}+2c^{11}+c^{10}+c^9+2c^8+2c^7+c^6+c^5+c^4+c^3+2c^2+2}{c^{21}+2c^{20}+c^{18}+c^{16}+2c^{15}+2c^{13}+c^{12}+2c^{10}+c^9+c^8+c^7+2c^6+c^5+c^4+c^2+c})x_0^2x_2x_3+(\frac{c^{26}+c^{25}+2c^{24}+c^{22}+c^{20}+c^{18}+c^{17}+2c^{16}+2}{c^{22}+c^{21}+c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+c}$$
$$(\frac{c^{24}+2c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+2c^{14}+c^{13}+2c^{10}+2c^9+c^8+c^7+c^6+c^4+2c+2}{c^{20}+c^{18}+2c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{11}+2c^9+c^5+c^4+2c^3+c+2})x_1^2x_2x_3+(\frac{c^{22}+c^{21}+c^{20}+c^{19}+c^{17}+c^{15}+2c^{13}+c^{11}+c^{10}+c^9+c^8+}{c^{20}+c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^9+c^6+2c^4}$$
$$(\frac{2c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^9+2c^8+2c^7+2c^6+2c^4+c^2+c+2}{c^{18}+c^{16}+2c^{13}+2c^{11}+c^9+c^7+c^5+2c^3+c^2})x_1x_2^2x_3+(\frac{c^{24}+c^{21}+c^{20}+c^{19}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{11}+2c}{c^{20}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+c^{11}+c^{10}}$$
$$(\frac{2c^{26}+c^{25}+2c^{23}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{12}+c^{11}+2c^{10}+2c^8+c^5+2c^4+2c^3+2c^2+c+1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+c^6+c^5+c^3+c^2})x_0^2x_3^2+(\frac{2c^{25}+2c^{24}+c^{21}+2c^{20}+c^{19}+c^{16}+2c^{13}+2c^{12}+2c}{c^{21}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{15}+c^{13}+2c}$$
$$(\frac{c^{23}+2c^{22}+c^{21}+c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+2c^{12}+2c^{11}+2c^{10}+c^6+2c^4+c^2+2c+2}{c^{20}+2c^{19}+c^{18}+c^{16}+c^{15}+c^{13}+2c^{12}+2c^{11}+2c^{10}+c^9+2c^7+c^6+c^5+2c^4+2c^3+2c^2})x_1^2x_3^2+(\frac{c^{26}+c^{25}+2c^{24}+2c^{23}+2c^{19}+2c^{17}+2c^{16}+c^{15}+c^{12}+c^{11}+c^9+2c^8+c}{c^{22}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+2c^{11}+c^7+c^6+2c^5+}$$
$$(\frac{2c^{27}+c^{26}+c^{24}+c^{23}+c^{22}+c^{21}+c^{19}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{14}+2c^{13}+c^{10}+2c^7+2c^6+2c^5+2c^3+c^2+c+2}{c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^8+2c^7+2c^5+c^4+2c^2})x_1x_2x_3^2+(\frac{2c^{25}+2c^{24}+2c^{23}+c^{22}+2c^{20}+2c^{19}+2c}{c^{21}+2c^{20}+c^{18}+c^{16}+2c^{15}+}$$
$$(\frac{c^{27}+c^{25}+2c^{24}+2c^{23}+2c^{22}+2c^{21}+c^{20}+c^{19}+c^{16}+2c^{15}+2c^{13}+2c^{12}+2c^{11}+2c^8+c^7+2c^6+2c^4+c^3+c^2+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_3^3+(\frac{2c^{26}+c^{25}+2c^{24}+c^{18}+c^{15}+c^{13}+c^{12}+}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}}$$

$(\frac{c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{21}+2c^{18}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{12}+c^{10}+2c^9+2c^8+2c^7+2c^5+2c^3+c^2+2c+1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+c^6+c^5+c^3+c^2})x_2x_3^3+(\frac{c^{23}+c^{22}+c^{21}+c^{20}+c^{18}+2c^{17}+c^{16}+2}{c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{14}}$

$(\frac{2c^{32}+c^{31}+c^{30}+c^{27}+c^{26}+2c^{25}+c^{24}+c^{22}+2c^{21}+c^{19}+2c^{18}+2c^{17}+2c^{15}+c^{13}+2c^{10}+2c^9+2c^8+c^7+2c^6+c^5+2c^2+c+2}{c^{27}+c^{26}+2c^{24}+c^{23}+c^{22}+c^{20}+c^{19}+c^{18}+c^{17}+c^{16}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^{10}+2c^6+2c^5+2c^4})x_0^3x_4+(\frac{c^{35}+2c^{34}+2c^{33}+c^{32}+2c^{31}+2c}{c^{30}+c^2}$

$(\frac{2c^{35}+c^{34}+c^{33}+2c^{32}+c^{31}+c^{30}+2c^{28}+2c^{27}+c^{26}+c^{25}+c^{24}+c^{23}+c^{22}+2c^{20}+c^{19}+2c^{18}+2c^{16}+2c^{15}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^9+c^8+c^7+c^6+2c^3+c^2+c+2}{c^{30}+c^{29}+c^{28}+c^{26}+c^{24}+2c^{23}+c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{12}+c^{11}+2c^9+2c^8+c^7+2c^6+2c^5})x_0$

$(\frac{c^{34}+c^{33}+c^{29}+2c^{28}+c^{27}+c^{26}+c^{25}+c^{23}+2c^{22}+c^{21}+2c^{18}+2c^{16}+2c^{15}+c^{12}+2c^{11}+2c^{10}+2c^9+2c^7+c^6+c^5+c^4+2c^3+c^2+2}{c^{30}+c^{29}+c^{28}+c^{26}+c^{24}+2c^{23}+c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{12}+c^{11}+2c^9+2c^8+c^7+2c^6+2c^5})x_1^3x_4+(\frac{c^{32}+c^{31}+c^{30}+c^{29}+2c^{28}+}{}$

$(\frac{2c^{36}+c^{35}+2c^{34}+2c^{33}+2c^{31}+c^{29}+2c^{27}+c^{26}+c^{25}+2c^{23}+c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+2c^{11}+2c^{10}+c^8+c^7+c^6+c^5+2c^4+2c^3+2c^2+2c+1}{c^{31}+2c^{30}+2c^{28}+2c^{27}+c^{26}+2c^{25}+c^{23}+2c^{22}+2c^{21}+2c^{19}+2c^{18}+c^{17}+c^{15}+2c^{13}+c^9+2c^8+2c^7+2c^6+c^5+2c^4}$

$(\frac{2c^{31}+2c^{29}+2c^{24}+c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+c^{16}+c^{15}+c^{13}+c^{12}+c^{10}+2c^7+c^3+c^2+c+2}{c^{26}+c^{23}+c^{22}+2c^{21}+c^{17}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+c^8+c^6+c^5+c^3})x_1^2x_2x_4+(\frac{2c^{34}+2c^{33}+2c^{32}+c^{31}+2c^{30}+c^{29}+2c^{27}+2c^{26}+c^{24}+c^2}{c^{32}+2c^{31}+2c^{29}+2c^{28}+c^{27}+2c^{26}+c^{24}+2c^{23}+2}$

$(\frac{c^{37}+c^{35}+c^{32}+c^{30}+2c^{29}+2c^{28}+2c^{24}+2c^{23}+c^{22}+2c^{21}+c^{19}+c^{18}+c^{13}+c^{12}+2c^{10}+c^9+2c^8+2c^7+2c^6+2c^5+c^4+2c^2+2}{c^{32}+2c^{31}+2c^{29}+2c^{28}+c^{27}+2c^{26}+c^{24}+2c^{23}+2c^{22}+2c^{20}+2c^{19}+c^{18}+c^{16}+2c^{14}+c^{10}+2c^9+2c^8+2c^7+c^6+2c^5})x_1x_2^2x_4+(\frac{2c^{35}+2c^{34}+2c^{32}+c^{31}+2c^2}{c^{30}+2c^2}$

$(\frac{c^{34}+c^{33}+c^{31}+c^{30}+2c^{29}+c^{27}+c^{26}+c^{23}+2c^{21}+2c^{19}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+c^8+2c^7+c^6+2c^5+2c^3+2c+1}{c^{30}+2c^{27}+c^{26}+2c^{25}+c^{24}+c^{23}+2c^{22}+c^{21}+2c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{12}+2c^{11}+2c^{10}+2c^9+2c^7+c^6+c^4})x_0^2x_3x_4+$

$(\frac{2c^{32}+2c^{29}+2c^{28}+c^{27}+c^{26}+c^{25}+c^{23}+2c^{22}+2c^{20}+c^{19}+2c^{18}+c^{17}+c^{15}+c^{14}+2c^{11}+c^{10}+2c^9+c^8+2c^6+2c^5+c^2+1}{c^{27}+c^{26}+c^{24}+c^{23}+c^{21}+2c^{20}+2c^{19}+2c^{17}+c^{16}+c^{15}+c^{14}+c^{12}+2c^8+c^7+c^6+2c^4})x_0x_1x_3x_4+(\frac{2c^{31}+2c^{27}+2c^{26}+2c^{25}+c^{24}}{c^{26}+c^2}$

$(\frac{c^{30}+2c^{29}+2c^{28}+c^{27}+c^{26}+2c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+c^{17}+2c^{14}+2c^{13}+c^{11}+2c^{10}+2c^9+c^8+2c^7+c^6+c^5+2c^4+c^2+2c+2}{c^{26}+c^{23}+c^{20}+c^{19}+c^{18}+2c^{17}+c^{15}+c^{13}+2c^{12}+2c^{11}+c^{10}+2c^9+c^8+c^7+c^5+2c^4})x_0x_2x_3x_4+$

$(\frac{2c^{32}+2c^{31}+c^{30}+2c^{26}+c^{23}+2c^{21}+2c^{18}+2c^{17}+c^{15}+c^{14}+c^{13}+c^{12}+2c^{11}+c^9+c^8+c^6+2c^5+2c^4+c^3+c+2}{c^{27}+c^{26}+2c^{25}+2c^{24}+c^{23}+c^{21}+2c^{20}+c^{19}+2c^{17}+c^{16}+c^{13}+c^{12}+2c^{10}+c^9+c^8+2c^5+2c^4})x_1x_2x_3x_4+(\frac{c^{33}+c^{32}+2c^{31}+c^{28}+2c^{27}+2c^{24}+c^{23}}{c^{29}+c^{27}+c^{24}+c^{22}+2c^{21}+2c^{20}+2c^{18}}$

$(\frac{2c^{39}+2c^{38}+c^{37}+c^{36}+2c^{35}+2c^{34}+2c^{33}+c^{32}+2c^{31}+c^{27}+c^{26}+2c^{23}+c^{22}+c^{21}+2c^{19}+2c^{18}+c^{15}+c^{13}+c^{11}+c^9+c^8+c^7+2c^3+c^2+2c+2}{c^{34}+c^{33}+2c^{32}+c^{31}+c^{29}+2c^{27}+c^{25}+c^{24}+c^{22}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{15}+2c^{14}+c^{12}+c^{11}+c^{10}+2c^9+c^8+2c^6+2c^5})x_0x_3^2x_4+$

$(\frac{2c^{38}+2c^{37}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{29}+2c^{27}+c^{26}+c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+c^{12}+c^{11}+c^8+c^7+2c^5+2}{c^{34}+c^{33}+2c^{32}+c^{31}+c^{29}+2c^{27}+c^{25}+c^{24}+c^{22}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{15}+2c^{14}+c^{12}+c^{11}+c^{10}+2c^9+c^8+2c^6+2c^5})x_1x_3^2x_4+$

$(\frac{2c^{38}+2c^{36}+2c^{35}+2c^{34}+2c^{33}+c^{32}+c^{31}+c^{30}+c^{29}+2c^{28}+c^{27}+c^{26}+2c^{25}+2c^{24}+2c^{23}+c^{21}+c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+c^{12}+c^{11}+2c^{10}+c^9+2c^8+2c^7+c^5+2c^4+}{c^{33}+c^{32}+2c^{31}+c^{30}+c^{28}+2c^{26}+c^{24}+c^{23}+c^{21}+c^{19}+c^{18}+2c^{17}+2c^{16}+c^{14}+2c^{13}+c^{11}+c^{10}+c^9+2c^8+c^7+2c^5+2c^4}$

$(\frac{c^{35}+c^{34}+2c^{32}+c^{31}+c^{29}+c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{22}+2c^{20}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+c^{12}+c^{11}+2c^9+2c^8+2c^7+2c^3+c^2+1}{c^{30}+2c^{29}+2c^{26}+c^{24}+2c^{23}+c^{22}+c^{21}+2c^{18}+2c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{10}+2c^9+c^8+2c^7+c^6+2c^5+c^4})x_3^3x_4+$

$(\frac{c^{44}+2c^{43}+2c^{42}+c^{41}+c^{40}+c^{39}+c^{37}+2c^{36}+c^{35}+c^{32}+2c^{31}+c^{27}+c^{25}+c^{23}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+c^{12}+c^{11}+c^{10}+2c^9+c^8+c^7+2c^6+c^5+c^4+c^3+2}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7}$

$(\frac{c^{44}+c^{43}+c^{41}+2c^{40}+c^{39}+2c^{38}+2c^{37}+c^{33}+c^{32}+2c^{29}+c^{28}+c^{27}+c^{25}+2c^{23}+2c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^9+c^6+2c^4+c^2+2c+1}{c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+c^{34}+2c^{33}+c^{31}+c^{30}+c^{27}+2c^{25}+2c^{24}+2c^{22}+c^{21}+2c^{19}+2c^{16}+c^{15}+2c^{14}+c^{12}+2c^{11}+c^{10}+c^6})x_0x_1x$

$(\frac{2c^{43}+c^{42}+2c^{41}+2c^{40}+c^{39}+2c^{38}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{30}+2c^{29}+2c^{23}+2c^{20}+c^{19}+c^{18}+2c^{14}+c^{13}+c^{12}+c^{10}+2c^7+2c^5+2c^4+2c+2}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7})x_1^2x_4^2+$

$(\frac{2c^{41}+2c^{39}+2c^{38}+2c^{37}+2c^{36}+c^{35}+2c^{34}+2c^{33}+2c^{32}+c^{31}+c^{29}+c^{28}+c^{27}+2c^{26}+c^{24}+c^{23}+c^{22}+2c^{18}+c^{17}+c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+2c^9+c^8+2c^7+2}{c^{36}+c^{34}+c^{33}+2c^{31}+c^{30}+2c^{29}+c^{28}+c^{27}+c^{26}+2c^{24}+2c^{23}+c^{21}+c^{20}+c^{19}+c^{18}+c^{15}+2c^{14}+2c^{12}+2c^{11}+c^{10}+2c^9+2c^8+2c^6}$

$(\frac{c^{44}+2c^{43}+c^{41}+c^{40}+2c^{39}+2c^{38}+2c^{37}+2c^{35}+2c^{34}+c^{33}+c^{32}+c^{27}+2c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+2c^{20}+c^{18}+c^{17}+2c^{16}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^7+c^6+2c^5+c^4+2}{c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+c^{34}+2c^{33}+c^{31}+c^{30}+c^{27}+2c^{25}+2c^{24}+2c^{22}+c^{21}+2c^{19}+2c^{16}+c^{15}+2c^{14}+c^{12}+2c^{11}+c^{10}+c^6}$

$(\frac{c^{44}+c^{43}+c^{42}+2c^{39}+2c^{38}+c^{37}+c^{36}+c^{35}+c^{33}+2c^{32}+c^{31}+c^{29}+2c^{28}+c^{27}+c^{25}+c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{13}+c^{12}+2c^9+c^8+c^7}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c}$

$(\frac{c^{36}+c^{35}+2c^{34}+2c^{33}+2c^{32}+c^{31}+2c^{29}+c^{27}+2c^{26}+c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{20}+c^{19}+c^{18}+c^{17}+c^{15}+c^{12}+c^{11}+c^{10}+2c^9+2c^8+2c^7+c^3+2c^2+c+2}{c^{32}+2c^{30}+2c^{29}+c^{28}+c^{26}+2c^{25}+c^{24}+c^{23}+c^{20}+c^{18}+2c^{16}+c^{15}+2c^9+c^7+2c^6})x_0x_3x_4^2+$

$(\frac{2c^{41}+c^{39}+2c^{38}+c^{37}+2c^{36}+c^{32}+2c^{25}+c^{24}+2c^{23}+c^{21}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+2c^{13}+c^{12}+2c^9+2c^7+c^4+2c^3+1}{c^{36}+c^{35}+c^{34}+2c^{30}+c^{28}+2c^{27}+2c^{25}+2c^{24}+2c^{19}+c^{18}+2c^{15}+2c^{13}+2c^{12}+2c^{11}+c^{10}+2c^9+c^6})x_1x_3x_4^2+(\frac{2c^{38}+c^{37}+c^{36}+2c^{35}+c}{}$

$(\frac{c^{44}+2c^{41}+c^{40}+c^{37}+c^{36}+c^{35}+2c^{33}+2c^{32}+c^{31}+2c^{30}+2c^{28}+c^{26}+c^{24}+2c^{22}+2c^{21}+c^{20}+2c^{19}+c^{18}+2c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+c^7+c^6+c^5+c^4+2c^3}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7}$

$(\frac{2c^{44}+c^{43}+2c^{41}+c^{39}+c^{38}+2c^{36}+c^{33}+2c^{32}+c^{29}+c^{28}+c^{25}+c^{24}+c^{23}+2c^{22}+2c^{20}+2c^{17}+c^{16}+c^{13}+c^{12}+c^{11}+2c^{10}+c^8+2c^7+c^6+c^5+2c^3+c^2+1}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7})x_0x_4^3+$

$(\frac{c^{43}+2c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+2c^{33}+c^{32}+2c^{31}+2c^{30}+c^{29}+2c^{28}+c^{27}+c^{25}+c^{24}+2c^{23}+c^{22}+c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{14}+c^{13}+c^{11}+2c^9+c^7+2}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+}$

$(\frac{2c^{44}+c^{43}+2c^{42}+2c^{41}+c^{40}+c^{38}+2c^{36}+c^{34}+2c^{32}+2c^{31}+2c^{29}+2c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{17}+2c^{16}+2c^{15}+2c^{12}+2c^{11}+c^7+2c^3+c+1}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^8+2c^7})x$

$(\frac{c^{41}+2c^{40}+c^{38}+c^{37}+c^{33}+2c^{32}+c^{31}+c^{30}+2c^{29}+c^{28}+2c^{27}+c^{26}+c^{25}+2c^{24}+2c^{22}+2c^{20}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+2c^9+2c^8+2c^7+c^5+c^4+c^3+2c+1}{c^{37}+2c^{35}+2c^{31}+c^{30}+2c^{29}+2c^{28}+c^{27}+c^{25}+2c^{20}+2c^{19}+2c^{16}+c^{15}+c^{13}+2c^{12}+2c^{11}+c^9+c^8+2c^7})x$

$(\frac{c^{41}+2c^{40}+c^{39}+2c^{37}+2c^{35}+c^{34}+2c^{33}+c^{32}+c^{31}+c^{30}+c^{29}+c^{28}+c^{26}+c^{25}+c^{24}+c^{22}+c^{21}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{15}+c^{14}+2c^{13}+2c^{12}+c^{11}+c^7+c^6+c^4+2c^2+2}{c^{39}+c^{38}+2c^{37}+2c^{36}+2c^{33}+c^{30}+c^{28}+c^{27}+c^{26}+2c^{22}+c^{21}+c^{20}+2c^{18}+c^{16}+c^{15}+c^{13}+c^{12}+2c^{10}+2c^8}$

$(\frac{1}{c^2+2})x_0^4+(\frac{c^7+c^6+c^5+c^4+2c+1}{c^5+2c})x_0^2x_1^2+(\frac{2c^7+c^4+2c^3+c^2+c+1}{c^5+c^4+c^3+c^2})x_0x_1^3+(\frac{2c^6+c^4+c^3+2c+1}{c^4+2c^3+c^2+2c})x_1^4+(\frac{c^6+2c^5+2c^4+c^2+2c+2}{c^5+2c})x_0^2x_1x_2+$

$(\frac{2c^7+c^5+c^3+1}{c^5+c^4+2c^3+c^2+c})x_0x_1^2x_2+(\frac{c^5+2c^3+c^2+c+1}{c^3+c^2})x_1^3x_2+(\frac{c}{c+2})x_0^2x_2^2+(\frac{2c^7+2c^4+c^3+c^2+1}{c^5+c^4+2c^3+c^2+c})x_0x_1x_2^2+(\frac{2c^7+c^6+2c^5+c^4+c^3+1}{c^5+2c})x_1^2x_2^2+$

$(\frac{c^2}{c^2+2})x_0x_2^3 + (\frac{2c^6+2c^5+2c^3+2c^2+c+2}{c^5+2c})x_1x_2^3 + (\frac{c^{23}+2c^{22}+c^{21}+2c^{20}+c^{18}+c^{17}+c^{16}+c^{15}+c^{13}+c^9+2c^5+c^4+c^3+2c^2+c}{c^{19}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^{10}+c^9+c^7+2c^6+2c^4+c^2+c+2})x_0^3x_3 +$

$(\frac{c^{24}+c^{23}+2c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+2c^9+c^8+c^6+c^5+c^4+2c^2+2c+1}{c^{21}+2c^{19}+c^{17}+2c^{16}+c^{14}+2c^{10}+2c^8+c^5+2c^4+c^3})x_0^2x_1x_3+(\frac{2c^{25}+2c^{24}+c^{23}+c^{22}+2c^{21}+2c^1}{c^{22}+c^{20}+2c^{18}+2c^{17}+2}$

$(\frac{c^{25}+2c^{24}+2c^{20}+c^{19}+2c^{17}+c^{16}+c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+c^8+2c^7+2c^5+2c^4+c^3+2}{c^{21}+c^{19}+2c^{18}+2c^{15}+2c^{14}+2c^{10}+c^7+2c^5+2c^3})x_1^3x_3+(\frac{2c^{26}+2c^{24}+c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+2c^{14}+2c^{13}+c^1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}}$

$(\frac{c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+c^{14}+2c^{13}+c^{12}+c^{10}+c^8+c^6+2c^5+2c^4+c^3+c+2}{c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^8+2c^7+2c^5+c^4+2c^2})x_0x_1x_2x_3+(\frac{2c^{26}+2c^{25}+c^{24}+c^{21}+2c^{20}+c^{19}+c^{18}+2c^{17}}{c^{22}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^1}$

$(\frac{c^{23}+2c^{21}+2c^{19}+2c^{18}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+2c^5+2c^4+2c+2}{c^{19}+c^{17}+2c^{16}+2c^{13}+2c^{12}+2c^8+c^5+2c^3+2c})x_0x_2^2x_3+(\frac{c^{23}+2c^{21}+c^{19}+2c^{18}+2c^{16}+c^{13}+c^{12}+2c^{11}+2c^{10}+c^9+2c}{c^{19}+c^{15}+2c^{14}+c^{13}+c^{11}+c^9+2c^8+c^7+c^6+c}$

$(\frac{2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{18}+c^{15}+c^{14}+c^{13}+c^{12}+c^{11}+2c^9+c^6+c^5+c^2+2c+2}{c^{21}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+c^{12}+c^{11}+c^9+2c^8+2c^6+c^4+c^3+2c^2})x_2^3x_3+(\frac{2c^{27}+c^{24}+c^{23}+c^{18}+c^{17}+c^{15}+2c^{13}+2c^{10}+2c^8+2c^5+c^4+2c^3+c^2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6}$

$(\frac{c^{24}+2c^{22}+2c^{21}+c^{20}+c^{19}+c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{12}+2c^{10}+2c^8+2c^6+2c^5+c^3+2c^2+2c+2}{c^{20}+2c^{19}+2c^{17}+c^{16}+c^{15}+c^{14}+2c^{13}+c^{11}+c^9+c^8+2c^7+2c^4+c^3})x_0x_1x_3^2+(\frac{2c^{23}+2c^{22}+c^{21}+c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+2c^{14}+}{c^{19}+c^{17}+c^{16}+2c^{15}+c^{12}+2c^1}$

$(\frac{2c^{24}+2c^{23}+2c^{22}+2c^{21}+c^{19}+2c^{17}+2c^{16}+c^{14}+2c^{13}+c^8+2c^7+c^6+c^5+2c^2+2}{c^{20}+2c^{19}+2c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^9+c^8+2c^7+c^6+c^4+c^3+2c^2+2c})x_0x_2x_3^2+(\frac{2c^{28}+c^{26}+c^{24}+c^{22}+2c^{21}+c^{20}+2c^{18}+2c^{17}+c^{16}+c^{14}+}{c^{24}+c^{23}+c^{22}+c^{21}+c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+2c}$

$(\frac{2c^{26}+2c^{25}+2c^{23}+c^{22}+c^{21}+2c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9+c^8+2c^7+c^6+c^5+2c^4+2c^3+c^2+2c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_2^2x_3^2 +$

$(\frac{c^{27}+c^{26}+2c^{25}+2c^{24}+c^{23}+c^{22}+c^{21}+2c^{19}+c^{17}+c^{14}+2c^{13}+c^{12}+c^{10}+c^8+2c^7+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_3^3+(\frac{c^{28}+c^{27}+2c^{26}+c^{24}+2c^{23}+2c^{22}+2c^{20}+c^{18}+c^{15}+c^{14}+c^{13}+2c^{11}+2c}{c^{24}+2c^{23}+c^{21}+c^{19}+2c^{18}+2c^{16}+c^{15}+2c^{13}+c^{12}+c^{11}}$

$$(\frac{c^{25}+2c^{23}+2c^{22}+c^{21}+c^{20}+2c^{17}+2c^{16}+c^{14}+c^{13}+2c^{12}+c^{11}+c^{10}+2c^7+2c^6+2c^5+c^4+c^3+2c^2+1}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+2c^7+c^6+c^5+c^3+c^2})x_2x_3^3+(\frac{c^{26}+c^{25}+c^{24}+c^{23}+c^{21}+2c^{20}+2c^{18}+2c^{17}+c^{16}+2c}{c^{23}+c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{17}+c^{16}}$$
$$(\frac{2c^{34}+2c^{32}+c^{31}+2c^{29}+2c^{26}+c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{19}+c^{18}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{12}+2c^{10}+2c^9+2c^8+c^7+c^6+c^5+2c^2+2c+1}{c^{29}+c^{28}+2c^{26}+c^{25}+c^{24}+c^{22}+c^{21}+c^{20}+c^{19}+c^{18}+c^{16}+c^{15}+2c^{14}+2c^{13}+c^{12}+2c^8+2c^7+2c^6})x_0^3x_4+$$
$$(\frac{2c^{34}+c^{32}+2c^{30}+2c^{28}+c^{27}+2c^{24}+2c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^9+c^8+c^6+2c^5+2c^4+c^3+2c^2+c+1}{c^{31}+c^{30}+c^{29}+c^{27}+c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{13}+c^{12}+2c^{10}+2c^9+c^8+2c^7+2c^6})x_0^2x_1x_4+(\frac{c^{34}+c^{33}+2c^{32}+2c^{30}}{c^{30}+2c^{29}}$$
$$(\frac{2c^{35}+c^{33}+c^{32}+2c^{31}+2c^{30}+c^{29}+2c^{28}+c^{27}+c^{26}+c^{25}+c^{23}+2c^{21}+c^{19}+2c^{18}+2c^{11}+c^{10}+c^8+c^7+c^6+2c^5+2c^4+c^3+2c^2+c+2}{c^{30}+2c^{29}+c^{26}+c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{19}+2c^{17}+2c^{12}+2c^9+c^8+2c^7+c^6})x_1^3x_4+(\frac{c^{36}+2c^{35}+2c^{34}+2c^{32}}{}$$
$$(\frac{2c^{33}+2c^{31}+c^{30}+2c^{29}+c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+2c^{12}+2c^{11}+2c^{10}+2c^8+1}{c^{28}+2c^{27}+2c^{25}+2c^{24}+c^{23}+2c^{22}+c^{20}+2c^{19}+2c^{18}+2c^{16}+2c^{15}+c^{14}+c^{12}+2c^{10}+c^6+2c^5+2c^4+2c^3+c^2+2c})x_0x_1x_2x_4+(\frac{c^{32}+c^{31}+c^{30}+c^{29}+c^{28}}{c^{27}}$$
$$(\frac{2c^{38}+c^{37}+c^{36}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{27}+c^{26}+c^{22}+c^{21}+2c^{19}+c^{18}+2c^{17}+c^{16}+c^{12}+c^{11}+c^{10}+c^9+2c^6+2c^4+2c^3+c^2+2c+1}{c^{33}+2c^{32}+2c^{30}+2c^{29}+c^{28}+2c^{27}+c^{25}+2c^{24}+2c^{23}+2c^{21}+2c^{20}+c^{19}+c^{17}+2c^{15}+c^{11}+2c^{10}+2c^9+2c^8+c^7+2c^6})x_0x_2^2x_4+$$
$$(\frac{2c^{38}+c^{37}+2c^{36}+c^{35}+2c^{34}+2c^{32}+c^{31}+2c^{30}+2c^{29}+2c^{28}+c^{27}+c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+c^{20}+c^{18}+c^{15}+2c^{14}+2c^{12}+2c^9+c^8+c^7+2c^6+c^5+c^4+2c^3+2c+1}{c^{33}+2c^{32}+2c^{30}+2c^{29}+c^{28}+2c^{27}+c^{25}+2c^{24}+2c^{23}+2c^{21}+2c^{20}+c^{19}+c^{17}+2c^{15}+c^{11}+2c^{10}+2c^9+2c^8+c^7+2c^6})$$
$$(\frac{2c^{36}+c^{35}+2c^{31}+c^{30}+2c^{29}+c^{28}+c^{27}+c^{26}+2c^{24}+2c^{23}+c^{22}+2c^{21}+c^{20}+2c^{18}+c^{17}+c^{15}+2c^{14}+2c^{12}+2c^{10}+c^8+c^6+2c^4+c^3+c^2+c+2}{c^{32}+2c^{29}+c^{28}+2c^{27}+c^{26}+c^{25}+2c^{24}+c^{23}+2c^{20}+c^{19}+2c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^9+c^8+c^6})x_2^3x_4+$$
$$(\frac{c^{35}+c^{34}+2c^{33}+c^{32}+2c^{30}+c^{28}+c^{27}+2c^{25}+c^{23}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+2c^{10}+c^9+c^8+c^7+c^6+c^5+2c^4+c^3+2c^2+2c+2}{c^{31}+2c^{28}+c^{27}+2c^{26}+c^{25}+c^{24}+2c^{23}+c^{22}+2c^{19}+c^{18}+2c^{17}+2c^{16}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+2c^8+c^7+c^5})x_0^2x_3x_4+$$
$$(\frac{2c^{32}+2c^{30}+2c^{29}+2c^{28}+2c^{27}+2c^{26}+c^{24}+c^{23}+2c^{19}+2c^{18}+2c^{17}+c^{15}+2c^{14}+2c^{12}+c^{11}+2c^8+2c^7+c^6+c^4+2c^3+c^2+c+1}{c^{28}+c^{23}+2c^{20}+2c^{19}+c^{18}+2c^{15}+c^{14}+c^{13}+c^{12}+c^{11}+2c^{10}+c^9+c^6+c^5})x_0x_1x_3x_4+(\frac{2c^{32}+2c^{31}+c^{30}+c^{29}}{}$$
$$(\frac{2c^{33}+c^{32}+2c^{31}+2c^{29}+c^{28}+c^{25}+c^{21}+c^{20}+2c^{19}+c^{15}+2c^{14}+2c^{13}+2c^{10}+2c^7+2c^6+c^3+c^2+2c+1}{c^{28}+c^{27}+c^{26}+2c^{24}+c^{22}+2c^{21}+2c^{17}+c^{14}+c^{13}+2c^{12}+c^{10}+c^8+2c^7+2c^6+c^5})x_0x_2x_3x_4+(\frac{2c^{36}+c^{35}+2c^{33}+2c^{31}+c^{30}+2c^{29}+2c^{28}}{c^{31}+c^{30}+2c^{29}+2c^{27}+2c^{26}}$$
$$(\frac{2c^{34}+c^{32}+c^{31}+c^{30}+2c^{29}+c^{27}+2c^{26}+2c^{25}+c^{24}+2c^{22}+2c^{21}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{14}+2c^{12}+2c^{11}+2c^8+2c^5+c^4+c^3+2c^2+2}{c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{21}+2c^{18}+2c^{17}+c^{15}+2c^{14}+2c^{12}+c^{11}+c^{10}+c^9+c^7+c^5})x_2^2x_3x_4+$$
$$(\frac{2c^{40}+c^{39}+c^{36}+2c^{35}+2c^{32}+c^{31}+c^{30}+2c^{29}+c^{28}+c^{27}+2c^{26}+c^{25}+c^{24}+c^{23}+2c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+2c^{16}+2c^{13}+c^{12}+c^{11}+c^{10}+c^5+c^3+2c^2+c+1}{c^{35}+c^{34}+2c^{33}+c^{32}+c^{30}+2c^{28}+c^{26}+c^{25}+c^{23}+c^{21}+c^{20}+2c^{19}+2c^{18}+c^{16}+2c^{15}+c^{13}+c^{12}+c^{11}+2c^{10}+c^9+2c^7+2c^6})$$
$$(\frac{2c^{40}+c^{39}+c^{38}+c^{36}+c^{34}+2c^{32}+c^{31}+c^{30}+c^{28}+c^{27}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{22}+2c^{21}+c^{20}+2c^{17}+c^{16}+2c^{14}+c^{13}+2c^{12}+2c^{11}+c^{10}+c^9+c^7+2c^6+c^5+2c^4}{c^{35}+c^{34}+2c^{33}+c^{32}+c^{30}+2c^{28}+c^{26}+c^{25}+c^{23}+c^{21}+c^{20}+2c^{19}+2c^{18}+c^{16}+2c^{15}+c^{13}+c^{12}+c^{11}+2c^{10}+c^9+2c^7+2c^6}$$
$$(\frac{c^{36}+c^{35}+2c^{32}+2c^{31}+c^{29}+c^{28}+2c^{27}+c^{26}+c^{24}+2c^{23}+2c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{15}+c^{12}+c^{11}+2c^{10}+c^9+c^8+2c^6+2c^5+c^4+c+1}{c^{35}+c^{34}+2c^{33}+c^{32}+c^{30}+2c^{28}+c^{26}+c^{25}+c^{23}+c^{21}+c^{20}+2c^{19}+2c^{18}+c^{16}+2c^{15}+c^{13}+c^{12}+c^{11}+2c^{10}+c^9+2c^7+2c^6})x_2x_3^2x_4+$$
$$(\frac{c^{39}+2c^{38}+c^{34}+c^{32}+2c^{31}+2c^{30}+c^{29}+2c^{28}+2c^{24}+c^{23}+2c^{21}+2c^{20}+2c^{19}+c^{16}+2c^{14}+c^{13}+2c^9+c^5+2c^2+1}{c^{34}+2c^{33}+c^{32}+2c^{31}+2c^{30}+2c^{27}+2c^{26}+c^{24}+c^{23}+2c^{22}+2c^{21}+c^{19}+2c^{17}+2c^{16}+2c^{14}+2c^{13}+c^{11}+2c^{10}+c^9+2c^8+2c^7+c^6})x_3^3x_4+(\frac{c^{45}+c^{43}+2c^{42}+2c^{41}+c^{39}}{c^{40}+2c^{39}+c^{37}+2c^{36}}$$
$$(\frac{2c^{45}+2c^{44}+2c^{43}+c^{41}+c^{40}+2c^{37}+2c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{29}+c^{28}+2c^{27}+c^{26}+c^{24}+2c^{23}+c^{21}+c^{20}+c^{18}+c^{17}+2c^{16}+c^{15}+2c^{13}+2c^{12}+2c^{11}+c^9+2c^4+2c^3}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^7}$$
$$(\frac{c^{43}+2c^{41}+2c^{40}+2c^{39}+2c^{37}+2c^{34}+c^{32}+c^{31}+c^{30}+c^{28}+c^{26}+2c^{25}+c^{24}+c^{23}+2c^{21}+c^{20}+c^{17}+c^{15}+2c^{12}+2c^{11}+c^{10}+c^9+c^7+c^6+2c^5+c^4+2c^2+2}{c^{38}+2c^{37}+2c^{36}+2c^{35}+c^{33}+2c^{32}+c^{31}+c^{30}+c^{27}+2c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+2c^{20}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+c^{12}+2c^9+2c^8})x_1^2x_4^2+$$
$$(\frac{c^{45}+c^{44}+c^{42}+c^{41}+c^{39}+2c^{38}+c^{36}+2c^{34}+c^{33}+c^{31}+2c^{30}+2c^{29}+2c^{28}+c^{27}+c^{26}+2c^{25}+2c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{17}+2c^{16}+c^{14}+2c^{13}+c^{10}+c^9+2c^7+2c^6+2c^3}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^7}$$
$$(\frac{c^{45}+2c^{43}+2c^{42}+2c^{41}+c^{38}+2c^{35}+c^{34}+2c^{33}+2c^{31}+c^{30}+c^{29}+2c^{27}+2c^{25}+c^{23}+2c^{22}+2c^{21}+2c^{20}+2c^{16}+2c^{13}+c^{12}+c^{11}+2c^{10}+2c^9+c^8+2c^7+2c^6+2c^4+2c^3}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^7}$$
$$(\frac{c^{44}+c^{43}+c^{41}+2c^{39}+2c^{38}+c^{37}+2c^{36}+2c^{35}+c^{34}+c^{33}+2c^{32}+2c^{31}+2c^{29}+2c^{26}+2c^{24}+2c^{23}+c^{21}+c^{20}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^7+c^6+c^5}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^9+2c^8}$$
$$(\frac{c^{44}+2c^{43}+c^{42}+c^{41}+c^{40}+2c^{39}+c^{38}+2c^{36}+c^{34}+2c^{33}+c^{32}+c^{31}+2c^{30}+2c^{29}+2c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{16}+c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{10}+c^9}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^7}$$
$$(\frac{c^{43}+c^{42}+c^{41}+2c^{40}+c^{39}+2c^{37}+c^{36}+2c^{35}+2c^{34}+2c^{33}+2c^{31}+c^{30}+2c^{28}+2c^{26}+c^{24}+2c^{23}+c^{21}+2c^{19}+2c^{18}+2c^{17}+c^{16}+c^{13}+c^{11}+c^{10}+c^8+c^6+c^5+c^4+c^2+c+1}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^7}$$
$$(\frac{2c^{41}+2c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{34}+2c^{33}+c^{32}+2c^{29}+2c^{28}+c^{27}+c^{26}+2c^{22}+c^{21}+c^{20}+c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{10}+c^8+c^6+2c^4+2c^3+2}{c^{36}+2c^{34}+c^{32}+2c^{31}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{24}+c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{17}+c^{16}+2c^{13}+c^{11}+c^{10}+c^8+2c^7})x_2x_3$$
$$(\frac{c^{45}+c^{44}+c^{43}+2c^{42}+c^{40}+2c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{33}+c^{31}+2c^{29}+c^{27}+2c^{24}+2c^{23}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+2c^{16}+c^{15}+2c^{14}+c^{13}+2c^{12}+c^{11}+c^8+c^6+2c^4}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^9+2c^8}$$
$$(\frac{2c^{45}+c^{43}+2c^{42}+c^{41}+2c^{40}+2c^{39}+c^{37}+c^{36}+2c^{35}+c^{34}+c^{31}+c^{30}+2c^{28}+c^{26}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^9+c^8+c^7+2c^6+2c^4+c^3}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^9+2c^8}$$
$$(\frac{2c^{41}+c^{39}+c^{38}+2c^{37}+2c^{36}+2c^{35}+2c^{32}+c^{30}+2c^{28}+c^{27}+c^{26}+c^{23}+2c^{22}+c^{20}+c^{19}+c^{18}+c^{15}+2c^{13}+2c^{12}+2c^{11}+c^{10}+2c^9+2c^8+2c^6+2c^5+2c^4+2c^3+2c^2+2}{c^{36}+c^{35}+c^{32}+c^{28}+2c^{26}+2c^{24}+2c^{23}+c^{21}+2c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+c^8})x$$
$$(\frac{2c^{44}+c^{43}+2c^{42}+c^{41}+c^{40}+c^{38}+c^{37}+c^{36}+c^{35}+c^{34}+c^{33}+2c^{32}+2c^{31}+2c^{30}+c^{29}+2c^{27}+2c^{25}+2c^{24}+2c^{22}+c^{21}+c^{20}+c^{19}+c^{18}+2c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^9}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}}$$
$$(\frac{c^{44}+2c^{43}+2c^{40}+2c^{39}+2c^{38}+2c^{36}+2c^{35}+c^{34}+2c^{32}+c^{30}+2c^{29}+c^{28}+2c^{27}+c^{25}+c^{24}+2c^{23}+2c^{22}+c^{20}+2c^{19}+2c^{18}+c^{14}+c^{10}+2c^8+2c^6+2c^5+2c^3+2c^2+1}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^9+2c^8})x_3x$$
$$(\frac{2c^{40}+2c^{39}+c^{36}+c^{35}+c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{29}+2c^{28}+2c^{25}+c^{24}+2c^{23}+2c^{21}+2c^{20}+c^{19}+c^{16}+c^{12}+2c^{10}+2c^9+c^8+2c^7+c^6+2c^4+2}{c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+2c^{33}+c^{31}+c^{27}+c^{26}+2c^{24}+c^{22}+2c^{21}+2c^{17}+2c^{15}+c^{14}+c^{13}+2c^9})x_4^4$$

$$(\frac{1}{c^2+2})x_0^4+(\frac{c^{21}+c^{19}+2c^{18}+c^{17}+c^{16}+c^{13}+c^{10}+c^9+c^8+2c^7+c^6+2c^5+c^4+2c^2+2c}{c^{17}+2c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+c^9+c^8+2c^6+c^5+2c^3+2c^2+c+2})x_0^3x_1+(\frac{2c^{24}+c^{21}+2c^{20}+c^{19}+2c^{17}+2c^{16}+c^{10}+c^8+c^7+2c^6+c^5+c^4+2c}{c^{20}+2c^{19}+c^{17}+c^{15}+2c^{14}+2c^{12}+c^{11}+2c^9+c^8+c^7+c^6+2c^5}$$
$$(\frac{c^{27}+2c^{26}+c^{25}+c^{24}+2c^{19}+2c^{15}+c^{13}+2c^{10}+c^9+2c^8+c^7+2c^6+2c^4+c^3+c^2+2c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_0x_1^3+(\frac{c^{22}+c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+2c^{11}+c^9+c^8+c^5+c^3}{c^{20}+2c^{19}+2c^{18}+2c^{14}+2c^9+c^8+2c^7+2c^6+c^5+c^4+2c^3}$$
$$(\frac{c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^{10}+2c^8+c^7+2c^5+c^4+2c^3+2c}{c^{19}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{12}+c^{10}+c^9+c^7+2c^6+2c^4+c^2+c+2})x_0^3x_2+(\frac{2c^{27}+2c^{26}+2c^{25}+c^{24}+2c^{23}+c^{22}+c^{20}+c^{19}+c^{17}}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}}$$
$$(\frac{2c^{20}+2c^{19}+c^{17}+c^{15}+c^{11}+c^{10}+c^8+c^7+2c^4+2c^3+c^2+c+1}{c^{16}+2c^{15}+c^{14}+2c^{12}+c^{10}+c^9+c^8+2c^7+2c^5+c^4+c^3+c^2})x_0x_1^2x_2+(\frac{c^{25}+2c^{24}+c^{23}+2c^{21}+c^{20}+c^{19}+c^{16}+2c^{15}+2c^{14}+c^{13}+c^{12}+2c^{10}+c^9+c^6+c^4+2}{c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{11}+2c^{10}+2c^9+2c^8+2c^7+2c^5}$$
$$(\frac{2c^{21}+c^{19}+2c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{11}+c^{10}+2c^9+2c^7+2c^6+c^4+c^3+2c^2+2c+2}{c^{17}+c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{10}+2c^9+2c^7+2c^6+2c^4+2c^3+c^2})x_0^2x_2^2+(\frac{2c^{27}+c^{26}+c^{22}+c^{19}+c^{18}+c^{15}+c^{13}+c^{12}+2c^{10}+c^9+c^8}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}}$$
$$(\frac{2c^{27}+c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+c^{19}+c^{17}+2c^{16}+c^{15}+2c^{12}+c^{11}+c^8+c^7+2c^4+2c^3+c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_1^2x_2^2+(\frac{c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{13}}{c^{21}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+c^{12}+c^{11}}$$
$$(\frac{c^{26}+c^{25}+c^{23}+2c^{22}+2c^{21}+2c^{19}+2c^{18}+2c^{16}+2c^{13}+2c^{12}+c^{11}+c^8+2c^7+c^6+c^5+2c^4+c+2}{c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+c^{15}+c^{14}+2c^{12}+2c^{11}+2c^{10}+2c^9+2c^8+2c^6+c^5+c^4})x_1x_2^3+(\frac{c^{24}+2c^{23}+c^{22}+2c^{21}+c^{18}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}}{c^{21}+2c^{20}+c^{19}+c^{17}+c^{16}+c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}}$$
$$(\frac{2c^{17}+2c^{16}+2c^{13}+c^{11}+2c^{10}+2c^9+2c^8+2c^7+2c^6+2c^2+2c}{c^{14}+2c^{11}+2c^{10}+c^9+2c^7+c^6+2c^4+2})x_0^3x_3+(\frac{2c^{20}+c^{19}+c^{17}+c^{16}+c^{15}+2c^{14}+c^{11}+c^9+2c^7+c^6+c^4+2c+1}{c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^9+2c^7+c^4+2c^3+c^2+2c})x_0^2x_1x_3+$$
$$(\frac{2c^{27}+2c^{26}+2c^{23}+c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{18}+2c^{15}+2c^{14}+c^{12}+c^{11}+2c^8+2c^7+2c^6+2c^5+2c^4+1}{c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^8+2c^7+2c^5+c^4+2c^2})x_0x_1^2x_3+(\frac{2c^{25}+2c^{23}+c^{22}+2c^{21}+c^{19}+2c^{16}+c^{15}+2c^{13}}{c^{22}+2c^{21}+c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+2c^{11}}$$
$$(\frac{2c^{24}+c^{23}+c^{22}+2c^{20}+c^{19}+c^{18}+c^{17}+2c^{16}+c^{14}+c^{13}+c^{11}+2c^8+c^6+2c^5+2c^2+c+1}{c^{20}+2c^{19}+2c^{18}+2c^{14}+2c^9+c^8+2c^7+2c^6+c^5+c^4+2c^3})x_0^2x_2x_3+(\frac{c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+c^{14}+2c^{13}+2c^{11}}{c^{21}+c^{20}+2c^{17}+c^{16}+2c^{15}+2c^{12}+2c^{11}+c^6}$$
$$(\frac{2c^{27}+c^{26}+c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{18}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{12}+2c^9+c^8+2c^7+2c^6+c^4+2c^3+2c^2+2c+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^9+2c^8+c^7+c^6+c^4+c^3})x_1^2x_2x_3+$$

$(\frac{2c^{27}+2c^{24}+2c^{19}+c^{18}+c^{15}+2c^{12}+c^{11}+c^{5}+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^{9}+2c^{8}+c^{7}+c^{6}+c^{4}+c^{3}})x_0x_2^2x_3+(\frac{2c^{26}+c^{25}+c^{24}+2c^{23}+2c^{22}+2c^{21}+2c^{18}+c^{17}+2c^{16}+c^{11}+2c^{10}+c^{9}\cdots}{c^{22}+c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{16}+c^{15}+c^{14}+2c^{11}+2c^{10}+2c^{9}+\cdots}$

$(\frac{c^{27}+2c^{25}+c^{23}+2c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{15}+c^{12}+c^{11}+2c^{10}+c^{9}+2c^{8}+2c^{6}+c^{4}+2c^{3}+2c+2}{c^{24}+2c^{23}+c^{21}+c^{19}+2c^{18}+2c^{16}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+2c^{9}+c^{8}+c^{7}+c^{5}+c^{4}})x_2^3x_3+(\frac{c^{19}+2c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+c^{10}+2c^{9}+2c^{6}+2c^{5}+c^{4}\cdots}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^{9}+c^{8}+c^{7}+c^{6}+c^{4}+\cdots}$

$(\frac{c^{25}+2c^{24}+c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+2c^{15}+2c^{14}+c^{13}+2c^{11}+c^{8}+2c^{6}+2c^{5}+2c^{4}+c^{3}+c^{2}+2c+2}{c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+2c^{13}+2c^{10}+c^{9}+2c^{8}+c^{7}+c^{5}+c^{4}+2c^{3}+2c^{2}})x_0x_1x_3^2+(\frac{c^{23}+2c^{22}+c^{21}+c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+2c^{12}\cdots}{c^{20}+2c^{19}+c^{18}+c^{16}+c^{15}+c^{13}+2c^{12}+2c^{11}+2c^{10}\cdots}$

$(\frac{c^{25}+2c^{24}+2c^{23}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+2c^{9}+c^{8}+c^{6}+2c^{4}+c^{3}+2c^{2}+c+1}{c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+c^{16}+c^{15}+c^{14}+2c^{13}+2c^{10}+c^{9}+2c^{8}+c^{7}+c^{5}+c^{4}+2c^{3}+2c^{2}})x_0x_2x_3^2+(\frac{c^{27}+2c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+\cdots}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+\cdots}$

$(\frac{2c^{26}+2c^{25}+2c^{23}+c^{22}+c^{21}+2c^{19}+2c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^{9}+c^{8}+2c^{7}+c^{6}+c^{5}+2c^{4}+2c^{3}+c^{2}+2c+1}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^{9}+2c^{8}+c^{7}+c^{6}+c^{4}+c^{3}})x_2^2x_3^2+$

$(\frac{2c^{19}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{11}+2c^{9}+c^{8}+c^{7}+2c^{6}+2c^{4}}{c^{16}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+c^{9}+c^{8}+c^{7}+c^{6}+c^{4}+2c^{2}+1})x_0x_3^3+(\frac{2c^{23}+2c^{22}+2c^{21}+2c^{20}+2c^{18}+c^{17}+2c^{16}+c^{12}+c^{10}+c^{9}+2c^{8}+c^{7}+c^{6}+c^{5}+c^{4}+1}{c^{20}+2c^{19}+c^{17}+c^{15}+2c^{14}+2c^{12}+c^{11}+2c^{9}+c^{8}+c^{7}+c^{6}+2c^{5}+c^{4}+c^{3}+c+1})x_1x_3^3\cdots$

$(\frac{2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{21}+c^{20}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+2c^{12}+2c^{9}+c^{8}+c^{7}+2c^{5}+2c^{2}+2}{c^{23}+2c^{22}+c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+2c^{12}+c^{11}+c^{10}+c^{9}+2c^{8}+c^{7}+c^{6}+c^{4}+c^{3}})x_2x_3^3+(\frac{2c^{30}+c^{29}+c^{28}+2c^{27}+2c^{25}+2c^{22}+2c^{21}+c^{20}+\cdots}{c^{25}+2c^{24}+2c^{23}+2c^{22}+c^{21}+\cdots}$

$(\frac{c^{36}+c^{33}+c^{31}+2c^{30}+c^{29}+c^{28}+c^{27}+2c^{26}+c^{25}+2c^{23}+c^{22}+2c^{21}+c^{20}+c^{18}+2c^{17}+c^{16}+c^{13}+2c^{12}+2c^{11}+2c^{10}+2c^{9}+2c^{8}+c^{7}+2c^{6}+2c^{4}+2c^{3}+c+1}{c^{31}+2c^{29}+c^{27}+2c^{26}+c^{21}+2c^{20}+2c^{19}+2c^{18}+2c^{17}+2c^{13}+2c^{12}+2c^{10}+c^{6}})x_0^2x_1x_4+$

$(\frac{c^{37}+c^{36}+c^{33}+c^{27}+2c^{26}+c^{25}+c^{23}+2c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{17}+c^{16}+c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{10}+c^{8}+2c^{7}+2c^{6}+c^{5}+2c^{3}+2c^{2}+c+1}{c^{32}+c^{31}+2c^{29}+2c^{25}+c^{22}+2c^{20}+c^{17}+2c^{16}+2c^{14}+c^{13}+c^{12}+c^{11}+2c^{10}+2c^{9}+c^{7}+c^{6}+c^{5}})x_0x_1^2x_4+$

$(\frac{2c^{34}+c^{32}+2c^{29}+2c^{28}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{19}+c^{18}+c^{17}+2c^{16}+c^{15}+2c^{13}+c^{12}+c^{11}+c^{10}+c^{8}+c^{7}+c^{6}+2c^{5}+2c^{4}+2c^{3}+2c^{2}+c+2}{c^{29}+2c^{27}+2c^{25}+c^{24}+2c^{23}+2c^{22}+c^{21}+c^{20}+c^{19}+2c^{17}+2c^{16}+2c^{14}+2c^{13}+c^{12}+2c^{11}+c^{9}+c^{8}+2c^{7}+2c^{6}})x_1^3x_4+$

$(\frac{c^{35}+2c^{34}+2c^{33}+c^{32}+c^{31}+c^{27}+c^{24}+2c^{21}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{13}+2c^{11}+2c^{10}+c^{9}+c^{7}+c^{6}+c^{5}+c^{4}+2c^{3}+2c^{2}+c+2}{c^{30}+2c^{29}+2c^{28}+c^{27}+c^{26}+c^{25}+c^{24}+c^{20}+c^{19}+c^{15}+2c^{12}+c^{10}+2c^{9}+c^{8}+c^{5}+2c^{4}})x_0^2x_2x_4+(\frac{2c^{34}+2c^{32}+2c^{31}+c^{29}+\cdots}{c^{30}+c^{28}+c^{25}\cdots}$

$(\frac{c^{38}+2c^{37}+c^{36}+2c^{35}+2c^{34}+2c^{32}+c^{31}+c^{28}+2c^{27}+c^{23}+c^{20}+2c^{19}+2c^{18}+2c^{16}+c^{14}+2c^{10}+2c^{8}+2c^{6}+c^{5}+c^{4}+2c^{3}+2c^{2}+2}{c^{33}+2c^{31}+2c^{30}+c^{29}+2c^{26}+c^{25}+c^{23}+2c^{22}+2c^{21}+c^{20}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+c^{11}+c^{9}+c^{8}+2c^{5}})x_1^2x_2x_4+(\frac{c^{38}+c^{37}+c^{36}+2c^{34}+\cdots}{c^{33}+2c^{31}+\cdots}$

$(\frac{c^{37}+c^{34}+c^{33}+2c^{32}+2c^{31}+2c^{30}+c^{28}+2c^{27}+c^{26}+c^{25}+2c^{24}+c^{22}+2c^{21}+2c^{19}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+c^{14}+2c^{13}+c^{12}+c^{10}+2c^{8}+c^{6}+2c^{5}+2c^{3}+2c^{2}+c+2}{c^{32}+c^{30}+2c^{29}+c^{27}+c^{25}+c^{24}+2c^{23}+2c^{20}+c^{19}+c^{18}+c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+c^{9}+c^{8}+2c^{6}})x_1\cdots$

$(\frac{2c^{34}+c^{33}+c^{31}+2c^{30}+2c^{29}+c^{27}+c^{25}+c^{23}+c^{22}+2c^{21}+2c^{20}+2c^{15}+2c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^{5}+2c^{3}+2c+1}{c^{29}+2c^{27}+2c^{25}+c^{24}+2c^{23}+2c^{22}+c^{21}+c^{20}+c^{19}+2c^{17}+2c^{16}+2c^{14}+2c^{13}+c^{12}+2c^{11}+c^{9}+c^{8}+2c^{7}+2c^{6}})x_2^3x_4+(\frac{2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+c^{27}\cdots}{c^{30}+\cdots}$

$(\frac{c^{37}+2c^{35}+c^{34}+c^{33}+2c^{31}+c^{28}+c^{27}+2c^{26}+2c^{25}+c^{23}+c^{22}+c^{20}+c^{18}+c^{15}+c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{10}+c^{9}+2c^{7}+2c^{6}+2c^{4}+c^{2}+2c+1}{c^{32}+2c^{31}+2c^{30}+c^{29}+c^{28}+c^{27}+c^{26}+c^{22}+c^{21}+c^{17}+2c^{14}+c^{12}+2c^{11}+c^{10}+c^{7}+2c^{6}})x_0x_1x_3x_4+$

$(\frac{c^{34}+c^{33}+2c^{31}+2c^{30}+c^{27}+c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{17}+c^{16}+c^{14}+2c^{13}+c^{8}+2c^{5}+c^{4}+c^{3}+c^{2}+c+2}{c^{30}+2c^{29}+2c^{27}+2c^{24}+2c^{23}+c^{22}+2c^{21}+c^{20}+2c^{19}+c^{17}+2c^{16}+2c^{15}+c^{14}+c^{13}+c^{12}+2c^{11}+c^{10}+c^{9}+2c^{8}+c^{7}})x_1^2x_3x_4+(\frac{c^{36}+2c^{35}+2c^{34}+c^{32}+\cdots}{c^{31}+\cdots}$

$(\frac{c^{39}+2c^{38}+2c^{37}+2c^{36}+2c^{35}+2c^{33}+2c^{32}+2c^{31}+c^{30}+c^{28}+2c^{27}+2c^{23}+2c^{17}+c^{16}+2c^{13}+c^{12}+2c^{10}+2c^{9}+2c^{8}+2c^{4}+c^{2}+1}{c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{27}+c^{26}+c^{24}+2c^{23}+2c^{22}+c^{21}+c^{19}+c^{18}+c^{17}+2c^{16}+2c^{15}+c^{12}+c^{10}+c^{9}+2c^{6}})x_1x_2x_3x_4+$

$(\frac{2c^{38}+2c^{37}+2c^{36}+2c^{35}+c^{33}+2c^{32}+2c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+c^{25}+c^{23}+c^{21}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{13}+c^{12}+c^{9}+2c^{5}+2c^{3}+2c^{2}+2c+1}{c^{34}+2c^{33}+2c^{31}+2c^{30}+c^{29}+2c^{28}+c^{26}+2c^{25}+2c^{24}+2c^{22}+2c^{21}+c^{20}+c^{18}+2c^{16}+c^{12}+2c^{11}+2c^{10}+2c^{9}+c^{8}+2c^{7}})x_2^2x_3x_4+$

$(\frac{c^{38}+c^{35}+c^{34}+c^{33}+c^{32}+2c^{31}+2c^{29}+2c^{28}+2c^{27}+2c^{26}+c^{25}+c^{19}+2c^{18}+2c^{15}+2c^{14}+c^{12}+c^{11}+c^{10}+c^{9}+c^{7}+2c^{5}+c^{4}+c^{2}+c+1}{c^{33}+c^{31}+2c^{29}+2c^{28}+2c^{27}+c^{26}+c^{23}+2c^{22}+c^{21}+c^{18}+c^{17}+2c^{15}+2c^{14}+c^{13}+c^{10}+c^{8}+2c^{6}})x_0x_3^2x_4+$

$(\frac{c^{37}+2c^{34}+c^{32}+2c^{31}+2c^{29}+2c^{28}+c^{27}+c^{25}+c^{24}+c^{23}+2c^{21}+c^{20}+2c^{17}+2c^{16}+2c^{14}+2c^{10}+c^{9}+c^{7}+c^{5}+c^{4}+c^{3}+2c^{2}+2}{c^{32}+c^{31}+2c^{30}+c^{29}+c^{27}+2c^{25}+c^{23}+c^{22}+c^{20}+c^{18}+c^{17}+2c^{16}+2c^{15}+c^{13}+2c^{12}+c^{10}+c^{9}+c^{8}+2c^{7}+c^{6}+2c^{4}+2c^{3}})x_1x_3^2x_4+(\frac{c^{40}+2c^{38}+c^{37}+c^{36}+2c^{35}+\cdots}{c^{35}+c^{34}\cdots}$

$(\frac{c^{38}+c^{37}+c^{36}+2c^{35}+c^{33}+2c^{32}+c^{31}+2c^{30}+2c^{29}+2c^{27}+c^{26}+c^{25}+2c^{21}+c^{20}+2c^{19}+c^{18}+2c^{17}+2c^{16}+c^{14}+c^{13}+c^{12}+2c^{11}+c^{9}+c^{8}+2c^{7}+2c^{4}+c^{3}+c^{2}+1}{c^{34}+c^{32}+2c^{30}+2c^{29}+2c^{28}+c^{27}+c^{24}+2c^{23}+c^{22}+c^{19}+c^{18}+2c^{16}+2c^{15}+c^{14}+c^{11}+c^{9}+2c^{7}})x_3^3x_4\cdots$

$(\frac{2c^{38}+c^{36}+c^{35}+2c^{34}+2c^{33}+c^{32}+c^{31}+c^{30}+c^{29}+c^{27}+2c^{25}+2c^{24}+2c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{18}+2c^{16}+2c^{14}+c^{13}+c^{9}+c^{7}+c^{5}+c^{4}+2c+1}{c^{33}+2c^{32}+2c^{31}+c^{30}+c^{29}+c^{28}+c^{27}+c^{23}+c^{22}+c^{18}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^{8}+2c^{7}})x_0^2x_4^2+$

$(\frac{2c^{35}+c^{34}+c^{33}+2c^{30}+2c^{28}+c^{27}+2c^{26}+2c^{25}+2c^{23}+2c^{22}+c^{21}+c^{20}+c^{18}+2c^{16}+c^{15}+2c^{13}+c^{10}+c^{9}+2c^{8}+2c^{7}+2c^{6}+c^{5}+c^{4}+2}{c^{30}+c^{29}+2c^{28}+2c^{27}+2c^{26}+c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{15}+c^{14}+2c^{11}+c^{10}+2c^{9}+c^{7}+2c^{6}})x_0x_1x_4^2+$

$(\frac{2c^{39}+2c^{38}+2c^{37}+2c^{36}+c^{35}+2c^{34}+c^{33}+2c^{30}+c^{28}+c^{27}+c^{26}+c^{25}+c^{24}+c^{23}+2c^{18}+2c^{17}+2c^{14}+2c^{12}+2c^{11}+c^{10}+2c^{8}+2c^{6}+c^{5}+2c^{3}+c+2}{c^{34}+c^{33}+2c^{31}+2c^{27}+c^{24}+2c^{22}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^{9}+c^{8}+c^{7}})x_1^2x_4^2+$

$(\frac{2c^{29}+2c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+c^{21}+c^{20}+2c^{19}+c^{18}+2c^{16}+c^{15}+2c^{14}+c^{13}+2c^{11}+c^{5}+2c^{4}+c^{3}+2c^{2}+c+2}{c^{24}+c^{23}+c^{22}+2c^{21}+2c^{19}+c^{17}+c^{16}+2c^{15}+c^{12}+2c^{9}+2c^{8}+c^{6}})x_0x_2x_4^2+(\frac{2c^{34}+c^{33}+c^{31}+c^{30}+2c^{29}+c^{28}+2c^{27}\cdots}{c^{29}+2c^{27}+2c^{25}+\cdots}$

$(\frac{2c^{39}+2c^{38}+c^{37}+2c^{36}+2c^{33}+2c^{31}+c^{30}+c^{29}+2c^{24}+2c^{23}+c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{16}+c^{15}+c^{12}+2c^{11}+c^{5}+2c^{4}+2c^{2}+2c+2}{c^{34}+c^{33}+2c^{31}+2c^{27}+c^{24}+2c^{22}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^{9}+c^{8}+c^{7}})x_2^2x_4^2+(\frac{c^{37}+c^{36}+2c^{35}+2c^{33}+\cdots}{\cdots}$

$(\frac{c^{38}+2c^{37}+c^{36}+c^{35}+c^{34}+2c^{31}+c^{29}+c^{28}+2c^{27}+c^{22}+c^{20}+2c^{19}+2c^{18}+c^{17}+c^{14}+2c^{12}+2c^{11}+c^{10}+c^{8}+c^{7}+2c^{6}+c^{2}+2c+1}{c^{33}+c^{32}+2c^{31}+2c^{30}+c^{29}+2c^{27}+c^{23}+c^{21}+c^{20}+c^{19}+2c^{18}+2c^{15}+c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{8}+c^{7}})x_1x_3x_4^2+(\frac{c^{39}+c^{37}+c^{35}+2c^{34}+\cdots}{\cdots}$

$(\frac{2c^{31}+2c^{29}+c^{28}+c^{26}+2c^{25}+c^{24}+2c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{15}+c^{14}+c^{12}+c^{11}+c^{10}+c^{9}+c^{8}+c^{7}+2c^{6}+2c^{5}+2}{c^{27}+c^{26}+2c^{23}+2c^{21}+c^{20}+2c^{19}+c^{17}+c^{16}+2c^{14}+2c^{13}+c^{12}+c^{10}+c^{7}+2c^{6}+c^{5}})x_3^2x_4^2+(\frac{2c^{36}+c^{34}+2c^{32}+2c^{29}+c^{28}+2c^{27}+\cdots}{c^{33}+2c^{32}+\cdots}$

$(\frac{c^{38}+2c^{37}+2c^{36}+c^{35}+c^{34}+2c^{31}+c^{30}+2c^{29}+c^{26}+2c^{25}+2c^{24}+c^{23}+c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{18}+2c^{17}+2c^{16}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{9}+2c^{7}+2c^{6}+c^{5}+2c^{4}+2c^{2}+\cdots}{c^{34}+c^{33}+2c^{31}+2c^{27}+c^{24}+2c^{22}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^{9}+c^{8}+c^{7}}\cdots$

$(\frac{2c^{37}+2c^{36}+2c^{35}+c^{34}+c^{33}+2c^{32}+c^{30}+c^{29}+2c^{28}+2c^{27}+2c^{25}+c^{24}+c^{23}+c^{22}+2c^{20}+c^{17}+c^{16}+2c^{14}+2c^{13}+c^{12}+c^{11}+c^{10}+2c^{7}+2c^{4}+c^{3}+c^{2}+2c+1}{c^{34}+c^{33}+2c^{31}+2c^{27}+c^{24}+2c^{22}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^{9}+c^{8}+c^{7}})x_2x_4^3+$

$(\frac{c^{38}+c^{37}+2c^{36}+2c^{35}+c^{32}+2c^{31}+2c^{29}+c^{28}+2c^{27}+2c^{24}+c^{21}+2c^{17}+2c^{16}+2c^{15}+c^{14}+c^{10}+2c^{9}+c^{8}+2c^{7}+2c^{5}+c^{3}+c^{2}+2c+2}{c^{34}+c^{33}+2c^{32}+2c^{31}+c^{30}+2c^{28}+c^{24}+c^{22}+c^{21}+c^{20}+2c^{19}+2c^{16}+c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{9}+c^{8}})x_3x_4^3+(\frac{2c^{37}+c^{36}+c^{34}+c^{33}+2c\cdots}{\cdots}$

$(\frac{1}{c^2+2})x_0^4+(\frac{2c^{34}+2c^{33}+2c^{31}+2c^{29}+2c^{27}+2c^{26}+c^{24}+2c^{22}+2c^{21}+2c^{20}+2c^{19}+2c^{17}+2c^{15}+2c^{9}+2c^{8}+c^{6}+c^{4}+2c^{3}+2c+2}{c^{29}+c^{28}+2c^{26}+c^{25}+c^{24}+c^{22}+c^{21}+c^{20}+c^{19}+c^{18}+c^{16}+c^{15}+2c^{14}+2c^{13}+c^{12}+2c^{8}+2c^{7}+2c^{6}})x_0^3x_1+(\frac{c^{33}+2c^{32}+2c^{30}+c^{29}+c^{28}\cdots}{\cdots}$

$(\frac{2c^{36}+c^{35}+2c^{34}+c^{33}+2c^{32}+2c^{29}+c^{27}+2c^{26}+2c^{25}+2c^{24}+2c^{22}+2c^{21}+2c^{19}+c^{17}+2c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{8}+2c^{6}+c^{5}+2c^{4}+2c^{2}+c+1}{c^{31}+c^{30}+c^{29}+c^{27}+c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+2c^{13}+c^{12}+2c^{10}+2c^{9}+c^{8}+2c^{7}+2c^{6}})x_0x_1^3+$

$(\frac{2c^{34}+2c^{33}+2c^{29}+c^{28}+2c^{27}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{21}+c^{18}+c^{16}+c^{15}+2c^{12}+c^{11}+c^{10}+c^{9}+c^{7}+2c^{6}+2c^{5}+2c^{4}+c^{3}+2c^{2}+1}{c^{30}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{23}+2c^{22}+2c^{20}+c^{18}+c^{17}+2c^{12}+2c^{11}+c^{10}+c^{9}+c^{8}+2c^{6}})x_1^4+(\frac{2c^{31}+c^{28}+2c^{27}+2c^{26}+2c\cdots}{c^{26}+\cdots}$

$(\frac{c^{33}+2c^{32}+c^{31}+2c^{29}+c^{28}+c^{26}+2c^{25}+c^{23}+c^{22}+c^{21}+2c^{13}+2c^{12}+c^{11}+c^{9}+c^{7}+2c^{5}+c^{4}+c^{3}+c^{2}+2c+2}{c^{28}+c^{27}+c^{26}+c^{25}+c^{24}+2c^{23}+2c^{22}+2c^{21}+c^{20}+c^{18}+c^{17}+c^{16}+c^{14}+2c^{13}+c^{11}+c^{9}+c^{8}+c^{7}+2c^{6}})x_0^2x_1x_2+(\frac{c^{37}+c^{36}+c^{35}+c^{33}+c^{32}+c^{31}+c^{29}+2c^{28}+c\cdots}{c^{32}+2c^{29}+c^{28}+2c^{27}+c^{26}\cdots}$

$(\frac{2c^{37}+2c^{36}+2c^{35}+c^{34}+c^{33}+2c^{31}+c^{30}+c^{29}+2c^{25}+2c^{24}+c^{21}+c^{20}+2c^{18}+2c^{16}+c^{14}+2c^{13}+c^{10}+c^{9}+2c^{8}+c^{7}+c^{5}+c^{4}+2c^{2}+2c+1}{c^{32}+2c^{29}+c^{28}+2c^{27}+c^{26}+c^{25}+2c^{24}+c^{23}+2c^{20}+c^{19}+2c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{9}+c^{8}+c^{6}})x_1^3x_2+$

$(\frac{c^{33}+2c^{31}+c^{30}+2c^{27}+2c^{25}+c^{24}+c^{23}+2c^{22}+2c^{21}+c^{19}+c^{18}+c^{16}+c^{13}+c^{11}+c^{10}+2c^{9}+2c^{7}+c^{6}+c^{3}+2c^{2}+c+2}{c^{28}+2c^{25}+c^{24}+2c^{23}+c^{22}+c^{21}+2c^{20}+c^{19}+2c^{16}+c^{15}+2c^{14}+2c^{13}+2c^{10}+2c^{9}+2c^{8}+2c^{7}+2c^{5}+c^{4}+c^{2}})x_0^2x_2^2+(\frac{c^{36}+c^{35}+2c^{33}+c^{32}+c^{31}+c^{29}+c^{28}+c\cdots}{c^{31}+\cdots}$

$(\frac{c^{34}+c^{33}+2c^{31}+c^{30}+2c^{29}+c^{27}+2c^{26}+2c^{25}+2c^{22}+2c^{20}+2c^{19}+c^{17}+2c^{16}+2c^{15}+c^{14}+2c^{13}+c^{11}+c^{10}+2c^{9}+2c^{8}+c^{7}+c^{6}+c^{5}+2c^{3}+2c^{2}+1}{c^{29}+c^{28}+2c^{27}+2c^{26}+2c^{25}+c^{22}+2c^{20}+2c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{10}+c^{9}+2c^{8}+c^{6}+2c^{5}})x_1^2x_2^2+$

$(\frac{2c^{38}+2c^{36}+c^{35}+2c^{34}+2c^{33}+2c^{32}+c^{31}+c^{30}+c^{29}+2c^{28}+c^{27}+c^{26}+c^{24}+2c^{23}+c^{22}+c^{20}+2c^{19}+c^{18}+2c^{16}+c^{14}+c^{13}+c^{12}+2c^{11}+2c^{9}+2c^{8}+2c^{6}+2c^{5}+c^{3}+2c^{2}+2\cdots}{c^{33}+2c^{30}+c^{29}+2c^{28}+c^{27}+c^{26}+2c^{25}+c^{24}+2c^{21}+c^{20}+2c^{19}+2c^{18}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{10}+c^{9}+c^{7}}\cdots$

$(\frac{2c^{38}+c^{36}+2c^{35}+c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{29}+c^{28}+c^{27}+c^{26}+2c^{25}+c^{24}+2c^{23}+2c^{22}+c^{20}+2c^{18}+c^{17}+2c^{16}+c^{14}+c^{10}+c^{8}+2c^{7}+2c^{6}+2c^{5}+2c^{4}+c^{3}+2c^{2}+2c+1}{c^{33}+2c^{30}+c^{29}+2c^{28}+c^{27}+c^{26}+2c^{25}+c^{24}+2c^{21}+c^{20}+2c^{19}+2c^{18}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+2c^{10}+c^{9}+c^{7}})\cdots$

$(\frac{c^{36}+2c^{35}+c^{31}+2c^{30}+c^{29}+2c^{28}+2c^{27}+2c^{26}+c^{24}+c^{23}+2c^{22}+c^{21}+2c^{20}+c^{18}+2c^{17}+2c^{15}+c^{14}+c^{12}+c^{10}+2c^{8}+2c^{6}+c^{4}+2c^{3}+2c^{2}+2c+1}{c^{32}+2c^{31}+c^{30}+c^{29}+2c^{27}+2c^{26}+2c^{25}+c^{23}+2c^{22}+c^{21}+c^{20}+2c^{18}+2c^{14}+2c^{12}+2c^{9}+2c^{8}+c^{7}})x_2^4+$

$$(\frac{2c^{31}+2c^{30}+c^{29}+c^{28}+2c^{27}+c^{26}+c^{24}+c^{23}+2c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{15}+2c^{14}+c^{13}+2c^{12}+2c^{11}+2c^{10}+2c^{9}+c^{8}+2c^{6}+2c^{5}+2}{c^{26}+2c^{25}+2c^{24}+2c^{23}+c^{22}+c^{21}+c^{19}+c^{16}+2c^{15}+2c^{14}+c^{13}+c^{11}+c^{10}+2c^{9}+2c^{8}+2c^{7}+2c^{5}})x_0^3x_3+$$
$$(\frac{2c^{37}+2c^{36}+2c^{34}+2c^{31}+c^{30}+c^{29}+c^{28}+2c^{27}+c^{26}+2c^{25}+c^{24}+c^{23}+2c^{21}+c^{20}+c^{19}+c^{18}+2c^{17}+c^{14}+c^{13}+2c^{12}+c^{10}+c^{6}+2c^{4}+2c^{2}+2}{c^{33}+c^{32}+2c^{30}+2c^{26}+c^{23}+2c^{21}+c^{18}+2c^{17}+2c^{15}+c^{14}+c^{13}+c^{12}+2c^{11}+2c^{10}+c^{8}+c^{7}+c^{6}})x_0^2x_1x_3+$$
$$(\frac{2c^{33}+c^{32}+2c^{30}+2c^{27}+c^{26}+c^{25}+c^{23}+c^{22}+2c^{21}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+c^{10}+2c^{3}+2c^{2}+1}{c^{29}+2c^{28}+2c^{22}+2c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{14}+c^{13}+c^{11}+2c^{10}+c^{9}+c^{6}+c^{4}})x_0x_1^2x_3+(\frac{2c^{37}+c^{35}+c^{34}+c^{32}+2c^{30}+c^{29}+}{c^{32}+2c^{29}+c^{28}+2}$$
$$(\frac{c^{32}+2c^{31}+c^{30}+2c^{29}+2c^{27}+c^{26}+2c^{25}+c^{24}+c^{23}+2c^{22}+c^{20}+c^{19}+2c^{18}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+2c^{10}+c^{9}+c^{7}+2c^{5}+2c+1}{c^{32}+c^{31}+2c^{29}+2c^{25}+c^{22}+2c^{20}+c^{17}+2c^{16}+2c^{14}+c^{13}+c^{12}+c^{11}+2c^{10}+2c^{9}+c^{7}+c^{6}+c^{5}})x_0^2x_2x_3+$$
$$(\frac{2c^{32}+2c^{31}+2c^{30}+2c^{28}+2c^{27}+2c^{26}+2c^{25}+c^{23}+2c^{21}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{14}+c^{12}+2c^{11}+c^{10}+c^{8}+2c^{7}+c^{5}+c^{4}+2c^{2}+1}{c^{28}+c^{27}+c^{26}+2c^{24}+c^{22}+2c^{21}+2c^{17}+c^{14}+c^{13}+2c^{12}+c^{10}+c^{8}+2c^{7}+2c^{6}+c^{5}})x_0x_1x_2x_3+$$
$$(\frac{c^{36}+c^{34}+2c^{33}+2c^{32}+c^{31}+c^{29}+c^{28}+2c^{27}+c^{26}+2c^{25}+2c^{23}+c^{22}+c^{20}+2c^{19}+c^{18}+2c^{14}+c^{13}+2c^{12}+c^{11}+c^{4}+2c^{3}+2c^{2}+2c+1}{c^{32}+2c^{30}+2c^{29}+c^{28}+2c^{25}+c^{24}+c^{22}+2c^{21}+2c^{20}+c^{19}+c^{17}+c^{16}+c^{15}+2c^{14}+2c^{13}+c^{10}+c^{8}+c^{7}+2c^{4}})x_1^2x_2x_3+$$
$$(\frac{c^{38}+c^{36}+2c^{33}+2c^{31}+2c^{29}+2c^{28}+c^{27}+2c^{25}+2c^{22}+c^{21}+2c^{20}+2c^{19}+c^{17}+2c^{16}+2c^{14}+c^{13}+c^{12}+2c^{11}+c^{10}+c^{7}+2c^{5}+2c^{4}+2c+1}{c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{27}+c^{26}+c^{24}+2c^{23}+2c^{22}+c^{21}+c^{19}+c^{18}+c^{17}+2c^{16}+2c^{15}+c^{12}+c^{10}+c^{9}+2c^{6}})x_0x_2^2x_3+$$
$$(\frac{2c^{36}+c^{35}+c^{33}+c^{32}+2c^{31}+c^{28}+c^{27}+c^{26}+2c^{25}+c^{24}+2c^{22}+c^{21}+2c^{20}+2c^{19}+c^{17}+c^{16}+c^{14}+2c^{12}+2c^{11}+2c^{8}+2c^{7}+2c^{6}+c^{4}+2c^{3}+2}{c^{32}+c^{30}+2c^{29}+c^{27}+c^{25}+c^{24}+2c^{23}+2c^{20}+c^{19}+c^{18}+c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+c^{9}+c^{8}+2c^{6}})x_1x_2^2x_3+$$
$$(\frac{2c^{32}+2c^{31}+2c^{30}+2c^{28}+2c^{25}+c^{24}+2c^{23}+c^{21}+c^{19}+2c^{17}+c^{15}+2c^{14}+c^{13}+2c^{12}+2c^{11}+c^{10}+c^{8}+2c^{7}+c^{5}+2c^{4}+c^{3}+c^{2}+2c+2}{c^{27}+2c^{26}+2c^{25}+c^{24}+2c^{23}+c^{20}+2c^{19}+c^{17}+2c^{16}+2c^{15}+c^{13}+2c^{11}+2c^{6}+c^{5}})x_2^3x_3+(\frac{c^{36}+c^{33}+2c^{29}+c^{28}+2c}{c^{33}+2c^{32}+2}$$
$$(\frac{c^{37}+c^{36}+2c^{35}+2c^{34}+2c^{32}+2c^{31}+c^{30}+2c^{29}+c^{28}+2c^{27}+c^{26}+2c^{25}+2c^{24}+c^{23}+2c^{22}+c^{21}+c^{20}+2c^{18}+2c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+c^{10}+c^{9}+2c^{8}+2c^{7}+2c^{6}+2c}{c^{32}+2c^{29}+c^{28}+2c^{27}+c^{26}+c^{25}+2c^{24}+c^{23}+2c^{20}+c^{19}+2c^{18}+2c^{17}+2c^{14}+2c^{13}+2c^{12}+2c^{11}+2c^{9}+c^{8}+c^{6}}$$
$$(\frac{2c^{37}+c^{36}+2c^{35}+c^{33}+c^{32}+2c^{29}+c^{26}+2c^{25}+c^{23}+2c^{22}+c^{21}+c^{20}+c^{19}+c^{17}+c^{16}+2c^{15}+c^{14}+c^{12}+2c^{11}+c^{7}+c^{3}+c^{2}+2c+1}{c^{34}+c^{33}+2c^{31}+2c^{27}+c^{24}+2c^{22}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{14}+c^{13}+2c^{12}+2c^{11}+c^{9}+c^{8}+c^{7}})x_1^2x_3^2+(\frac{c^{37}+c^{36}+2c^{34}+2c^{33}+c^{31}}{c^{32}}$$
$$(\frac{c^{33}+2c^{32}+c^{31}+2c^{30}+2c^{28}+c^{27}+c^{23}+c^{21}+c^{20}+2c^{19}+2c^{18}+c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+c^{10}+2c^{9}+2c^{8}+c^{7}+2c^{3}+2c^{2}+c+1}{c^{28}+2c^{26}+2c^{24}+c^{23}+2c^{22}+2c^{21}+c^{20}+c^{19}+c^{18}+2c^{16}+2c^{15}+2c^{13}+2c^{12}+c^{11}+2c^{10}+c^{8}+c^{7}+2c^{6}+2c^{5}})x_1x_2x_3^2+(\frac{c^{37}+c^{35}+2c^{33}+2c^{29}+}{c^{33}+2c^{32}+2}$$
$$(\frac{c^{38}+2c^{36}+c^{35}+2c^{33}+c^{32}+2c^{31}+2c^{29}+c^{28}+c^{27}+c^{25}+2c^{23}+c^{20}+2c^{19}+2c^{18}+c^{17}+c^{15}+2c^{14}+c^{12}+c^{10}+2c^{9}+c^{8}+2c^{5}+2c+1}{c^{33}+2c^{32}+2c^{31}+c^{30}+c^{29}+c^{28}+c^{27}+c^{23}+c^{22}+c^{18}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^{8}+2c^{7}})x_0x_3^3+(\frac{c^{36}+c^{35}+c^{34}+2c^{32}+2c}{}$$
$$(\frac{c^{37}+2c^{36}+2c^{35}+c^{34}+2c^{33}+c^{32}+2c^{31}+c^{30}+c^{29}+c^{27}+2c^{26}+c^{24}+c^{23}+2c^{22}+2c^{17}+2c^{16}+c^{15}+2c^{14}+2c^{13}+c^{11}+2c^{10}+2c^{9}+c^{8}+2c^{7}+c^{6}+c^{4}+c+1}{c^{32}+2c^{31}+c^{29}+c^{28}+2c^{27}+c^{25}+c^{24}+2c^{23}+c^{22}+c^{17}+c^{15}+2c^{13}+2c^{10}+c^{9}+2c^{7}})x_2x_3^3+$$
$$(\frac{2c^{38}+2c^{37}+2c^{36}+c^{35}+2c^{33}+c^{32}+2c^{31}+c^{30}+c^{29}+c^{27}+2c^{26}+2c^{25}+c^{21}+2c^{20}+c^{19}+2c^{18}+c^{17}+c^{16}+2c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{9}+2c^{8}+c^{7}+c^{4}+2c^{3}+2c^{2}+2}{c^{34}+2c^{33}+2c^{32}+c^{31}+c^{30}+c^{29}+c^{28}+c^{24}+c^{23}+c^{19}+2c^{16}+c^{14}+2c^{13}+c^{12}+c^{9}+2c^{8}})x_3^4$$
$$(\frac{c^{44}+c^{43}+2c^{41}+2c^{37}+c^{36}+c^{35}+c^{34}+c^{33}+c^{30}+2c^{27}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{21}+c^{20}+c^{19}+2c^{18}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{11}+c^{10}+c^{9}+c^{7}+c^{5}+2c^{3}+2c^{2}+c+}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^{9}+2c^{8}+2c^{7}}$$
$$(\frac{c^{44}+c^{42}+c^{41}+2c^{40}+2c^{39}+c^{38}+c^{37}+c^{36}+2c^{34}+2c^{33}+2c^{29}+2c^{28}+c^{26}+2c^{23}+2c^{22}+2c^{21}+2c^{20}+c^{19}+c^{18}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{11}+2c^{10}+c^{9}+2c^{8}+c^{7}+c^{3}+}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^{9}+2c^{8}+2c^{7}}$$
$$(\frac{c^{43}+c^{42}+2c^{35}+2c^{33}+c^{32}+c^{30}+2c^{29}+2c^{27}+c^{26}+c^{25}+c^{24}+2c^{23}+c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{18}+2c^{17}+2c^{16}+c^{15}+2c^{14}+2c^{13}+c^{12}+c^{10}+2c^{9}+c^{8}+2c^{6}+c^{5}+2c^{3}+}{c^{39}+c^{38}+2c^{37}+2c^{36}+2c^{33}+c^{30}+c^{28}+c^{27}+c^{26}+2c^{22}+c^{21}+2c^{20}+2c^{18}+c^{16}+c^{15}+c^{13}+c^{12}+2c^{10}+2c^{8}}$$
$$(\frac{c^{45}+c^{44}+c^{41}+2c^{40}+2c^{39}+2c^{38}+c^{37}+2c^{35}+c^{34}+2c^{33}+c^{32}+c^{28}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+2c^{21}+2c^{20}+2c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+c^{13}+c^{12}+2c^{11}+2c^{9}+2c^{8}+}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{9}+}$$
$$(\frac{c^{39}+c^{38}+c^{37}+c^{36}+c^{34}+c^{33}+c^{31}+c^{30}+c^{28}+2c^{27}+2c^{26}+2c^{25}+2c^{24}+2c^{22}+c^{20}+c^{19}+2c^{18}+2c^{14}+2c^{13}+c^{12}+c^{11}+2c^{10}+2c^{7}+c^{6}+c^{5}+2c^{4}+c+2}{c^{35}+c^{34}+c^{33}+2c^{32}+2c^{30}+c^{29}+c^{28}+c^{27}+c^{26}+c^{24}+2c^{23}+2c^{21}+2c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+c^{13}+c^{12}+2c^{9}+c^{8}+c^{7}})x_0x_1x_2x_4+$$
$$(\frac{c^{45}+2c^{44}+2c^{42}+2c^{41}+2c^{40}+c^{39}+c^{38}+2c^{37}+2c^{36}+2c^{35}+c^{34}+2c^{33}+c^{32}+c^{29}+2c^{28}+2c^{27}+c^{26}+c^{24}+c^{23}+c^{22}+c^{20}+c^{18}+c^{17}+2c^{16}+c^{14}+2c^{13}+c^{11}+2c^{10}+}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{9}+}$$
$$(\frac{c^{45}+c^{44}+2c^{43}+2c^{39}+2c^{37}+2c^{35}+c^{32}+c^{31}+2c^{28}+2c^{27}+2c^{26}+2c^{23}+2c^{22}+c^{20}+2c^{19}+c^{18}+c^{15}+2c^{14}+2c^{13}+2c^{11}+2c^{7}+c^{6}+2c^{5}+2c^{4}+2c^{3}+2}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{9}+2c^{8}})x_0x_2^2x_4+$$
$$(\frac{c^{45}+2c^{43}+2c^{42}+c^{41}+c^{40}+c^{38}+2c^{37}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{31}+c^{30}+2c^{27}+c^{25}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{12}+c^{10}+2c^{9}+2c^{7}+2c^{4}+c^{2}+c+2}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{9}+2c^{8}}$$
$$(\frac{2c^{44}+c^{40}+c^{39}+c^{38}+2c^{35}+2c^{34}+2c^{32}+2c^{31}+c^{29}+c^{27}+c^{26}+c^{25}+2c^{24}+c^{23}+c^{22}+2c^{21}+c^{19}+c^{18}+c^{16}+2c^{15}+2c^{14}+2c^{13}+c^{12}+2c^{9}+2c^{5}+c^{3}+c^{2}+1}{c^{40}+c^{39}+2c^{38}+2c^{37}+2c^{34}+c^{31}+c^{29}+c^{28}+c^{27}+2c^{23}+c^{22}+2c^{21}+2c^{19}+c^{17}+c^{16}+c^{14}+c^{13}+2c^{11}+2c^{9}})x_2^3x_4+$$
$$(\frac{2c^{34}+2c^{33}+2c^{31}+2c^{30}+c^{29}+2c^{28}+c^{27}+c^{26}+c^{24}+c^{23}+2c^{20}+2c^{19}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+c^{10}+2c^{9}+c^{6}+2c^{5}+1}{c^{29}+2c^{27}+2c^{26}+c^{25}+c^{23}+2c^{22}+2c^{20}+2c^{19}+2c^{18}+2c^{11}+2c^{10}+c^{7}})x_0^2x_3x_4+(\frac{c^{43}+c^{42}+2c^{41}+c^{40}+2c^{39}+c^{38}}{c^{38}+}$$
$$(\frac{2c^{42}+c^{41}+2c^{39}+2c^{38}+c^{37}+2c^{36}+c^{35}+2c^{34}+2c^{32}+c^{31}+c^{30}+c^{27}+c^{26}+2c^{25}+2c^{23}+c^{21}+2c^{20}+c^{18}+c^{17}+c^{16}+2c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{11}+2c^{8}+c^{7}+c^{6}+2c^{5}+}{c^{37}+2c^{36}+2c^{35}+2c^{34}+c^{32}+2c^{31}+c^{30}+c^{29}+c^{26}+2c^{25}+c^{24}+2c^{23}+2c^{22}+c^{21}+2c^{19}+2c^{16}+2c^{15}+2c^{14}+2c^{12}+c^{11}+2c^{8}+2c^{7}}$$
$$(\frac{c^{45}+2c^{42}+c^{41}+2c^{37}+2c^{36}+2c^{35}+c^{33}+c^{32}+c^{31}+c^{28}+c^{27}+2c^{26}+c^{25}+c^{24}+c^{21}+c^{20}+2c^{18}+c^{17}+c^{16}+2c^{14}+c^{12}+c^{11}+c^{10}+2c^{9}+2c^{8}+2c^{6}+c^{5}+2c^{4}+c^{3}+c^{2}+c}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^{7}}$$
$$(\frac{c^{41}+2c^{38}+2c^{37}+c^{36}+c^{34}+2c^{33}+2c^{32}+c^{31}+2c^{30}+c^{29}+2c^{27}+c^{25}+2c^{24}+c^{23}+2c^{22}+c^{19}+c^{16}+2c^{15}+2c^{14}+2c^{13}+c^{12}+2c^{10}+2c^{9}+c^{8}+2c^{5}+2c^{2}+c+2}{c^{36}+2c^{35}+2c^{34}+2c^{32}+2c^{31}+2c^{29}+2c^{28}+2c^{27}+c^{26}+c^{25}+2c^{23}+2c^{22}+c^{21}+c^{18}+c^{16}+c^{14}+2c^{13}+c^{12}+2c^{10}+2c^{8}+c^{7}})x_1x_2x_3$$
$$(\frac{2c^{42}+c^{41}+2c^{40}+2c^{37}+2c^{36}+2c^{35}+c^{31}+c^{28}+2c^{25}+2c^{24}+c^{23}+2c^{22}+2c^{20}+c^{17}+c^{16}+c^{15}+2c^{14}+c^{13}+c^{11}+c^{10}+2c^{9}+2c^{8}+2c^{7}+c^{6}+2c^{5}+c+1}{c^{37}+c^{36}+2c^{35}+2c^{32}+2c^{30}+c^{28}+2c^{27}+2c^{26}+c^{25}+c^{22}+2c^{21}+c^{19}+c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{12}+2c^{10}+c^{9}+c^{8}})x_2^2x_3x_4+$$
$$(\frac{c^{39}+c^{38}+2c^{36}+c^{35}+2c^{32}+2c^{31}+c^{30}+2c^{28}+2c^{27}+c^{25}+2c^{22}+2c^{21}+c^{20}+2c^{18}+c^{15}+c^{14}+c^{13}+2c^{12}+c^{9}+c^{8}+c^{7}+c^{6}+2c^{5}+c^{4}+2c^{3}+c^{2}+2c+1}{c^{34}+c^{32}+2c^{30}+2c^{29}+2c^{28}+c^{27}+c^{24}+2c^{23}+c^{22}+c^{19}+c^{18}+2c^{16}+2c^{15}+c^{14}+c^{11}+c^{9}+2c^{7}})x_0x_3^2x_4+$$
$$(\frac{c^{40}+c^{38}+2c^{35}+c^{34}+2c^{33}+2c^{28}+c^{27}+c^{26}+c^{25}+c^{23}+c^{21}+c^{20}+2c^{18}+c^{15}+c^{13}+2c^{12}+2c^{11}+2c^{10}+c^{9}+2c^{8}+2c^{5}+2c^{4}+2c^{3}+2c^{2}+2c+2}{c^{35}+c^{33}+2c^{31}+c^{28}+2c^{27}+c^{26}+2c^{25}+2c^{24}+2c^{23}+c^{22}+c^{21}+2c^{20}+2c^{19}+2c^{14}+c^{13}+c^{12}+c^{10}+2c^{9}+c^{8}+2c^{7}})x_1x_3^2x_4+$$
$$(\frac{c^{45}+2c^{44}+c^{43}+c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+2c^{35}+c^{33}+c^{32}+2c^{31}+2c^{29}+c^{27}+2c^{26}+2c^{25}+2c^{24}+2c^{23}+c^{21}+c^{20}+c^{18}+2c^{13}+c^{10}+2c^{8}+2c^{7}+2c^{5}+c^{4}+c^{3}+c^{2}+c+1}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{9}+2c^{8}}$$
$$(\frac{c^{38}+c^{36}+2c^{35}+c^{34}+2c^{32}+2c^{31}+c^{29}+2c^{28}+c^{26}+c^{25}+2c^{23}+c^{21}+c^{19}+2c^{18}+2c^{13}+c^{12}+c^{11}+c^{8}+c^{7}+c^{6}+2c^{5}+2c^{4}+c+1}{c^{34}+c^{33}+2c^{32}+2c^{31}+c^{30}+2c^{28}+c^{24}+c^{22}+c^{21}+c^{20}+2c^{19}+2c^{16}+c^{15}+2c^{14}+2c^{13}+2c^{12}+c^{9}+c^{8}})x_3^3x_4+(\frac{c}{c+2})x_0^2x_4^2+$$
$$(\frac{2c^{44}+c^{41}+c^{40}+2c^{39}+c^{37}+c^{35}+2c^{34}+c^{33}+c^{30}+c^{27}+c^{26}+2c^{24}+c^{17}+c^{15}+2c^{14}+c^{12}+2c^{9}+2c^{8}+2c^{7}+2c^{6}+2c^{5}+2c^{4}+2c^{3}+c^{2}+2c+2}{c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+c^{34}+2c^{33}+c^{31}+c^{30}+c^{27}+2c^{25}+2c^{24}+2c^{22}+c^{21}+2c^{19}+2c^{16}+c^{15}+2c^{14}+c^{12}+2c^{11}+c^{10}+c^{6}})x_0x_1x_4^2+$$
$$(\frac{2c^{43}+c^{42}+2c^{41}+2c^{40}+c^{39}+2c^{38}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{30}+2c^{29}+2c^{23}+2c^{20}+c^{19}+c^{18}+2c^{14}+c^{13}+c^{12}+c^{10}+2c^{7}+2c^{5}+2c^{4}+2c+2}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^{9}+2c^{8}+2c^{7}})x_1^2x_4^2+$$
$$(\frac{2c^{45}+c^{42}+c^{41}+c^{40}+2c^{34}+c^{33}+c^{32}+2c^{31}+2c^{30}+2c^{29}+2c^{28}+2c^{27}+2c^{26}+2c^{25}+c^{23}+c^{22}+2c^{21}+c^{20}+c^{19}+2c^{18}+2c^{17}+c^{16}+c^{15}+c^{14}+c^{11}+2c^{10}+c^{9}+c^{6}+c^{5}+}{c^{40}+c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+2c^{34}+c^{32}+c^{31}+c^{28}+2c^{26}+2c^{25}+2c^{23}+c^{22}+2c^{20}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+c^{7}}$$
$$(\frac{2c^{39}+c^{36}+2c^{35}+c^{33}+2c^{31}+2c^{28}+c^{26}+2c^{25}+c^{24}+c^{22}+c^{21}+c^{19}+c^{18}+c^{17}+c^{16}+c^{15}+c^{13}+2c^{12}+2c^{9}+c^{8}+2c^{7}+2c^{6}+2c^{5}+c^{4}+c^{3}+c^{2}+2}{c^{34}+c^{32}+c^{31}+2c^{30}+c^{28}+c^{26}+c^{23}+c^{22}+2c^{21}+2c^{19}+2c^{18}+2c^{16}+2c^{15}+c^{14}+2c^{13}+2c^{12}+2c^{11}+c^{10}+2c^{9}+c^{7}})x_1x_2x_4^2+$$
$$(\frac{c^{44}+c^{43}+c^{41}+2c^{39}+2c^{38}+c^{37}+2c^{36}+2c^{35}+c^{34}+c^{33}+2c^{32}+2c^{31}+2c^{29}+2c^{26}+2c^{24}+2c^{23}+c^{21}+c^{20}+c^{17}+2c^{16}+2c^{15}+2c^{14}+c^{13}+2c^{11}+c^{10}+c^{9}+c^{7}+c^{6}+c^{5}+}{c^{40}+2c^{39}+c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{31}+c^{30}+c^{29}+2c^{28}+2c^{27}+c^{26}+2c^{23}+2c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{16}+c^{15}+c^{14}+2c^{13}+c^{12}+2c^{11}+2c^{10}+2c^{9}+2c^{8}}$$
$$(\frac{2c^{36}+2c^{35}+c^{34}+2c^{31}+c^{29}+2c^{28}+2c^{26}+2c^{25}+c^{24}+2c^{23}+c^{22}+2c^{21}+2c^{20}+c^{18}+2c^{17}+2c^{16}+2c^{14}+2c^{13}+c^{12}+2c^{11}+c^{10}+c^{9}+c^{7}+2c^{5}+2c^{3}+2c^{2}+2c+1}{c^{32}+c^{31}+2c^{30}+2c^{29}+c^{28}+2c^{26}+c^{22}+c^{20}+c^{19}+c^{18}+2c^{17}+2c^{14}+c^{13}+2c^{12}+2c^{11}+2c^{10}+c^{7}+c^{6}})x_0x_3$$
$$(\frac{c^{43}+c^{39}+2c^{38}+2c^{37}+c^{35}+c^{34}+2c^{32}+c^{31}+c^{27}+c^{26}+c^{25}+c^{24}+2c^{23}+2c^{22}+2c^{19}+c^{18}+2c^{17}+c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+c^{10}+2c^{7}+2c^{6}+c^{2}+2c+2}{c^{39}+c^{38}+c^{37}+c^{36}+c^{35}+c^{34}+2c^{33}+c^{31}+c^{30}+c^{27}+2c^{25}+2c^{24}+2c^{22}+c^{21}+2c^{19}+2c^{16}+c^{15}+2c^{14}+c^{12}+2c^{11}+c^{10}+c^{6}})x_1x_3x_4^2+$$
$$(\frac{2c^{42}+c^{40}+2c^{39}+c^{36}+2c^{35}+c^{33}+c^{31}+c^{30}+c^{26}+2c^{25}+2c^{23}+2c^{22}+c^{21}+2c^{17}+c^{16}+2c^{15}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^{9}+c^{8}+c^{7}+2c^{6}+c^{4}+c^{3}+c^{2}+2}{c^{38}+2c^{37}+2c^{36}+c^{35}+2c^{32}+2c^{31}+c^{30}+2c^{28}+2c^{27}+c^{26}+2c^{25}+2c^{21}+c^{19}+2c^{17}+2c^{16}+2c^{15}+c^{14}+c^{13}+2c^{10}+c^{8}+c^{7}})x_2x_3x_4^2+$$
$$(\frac{2c^{31}+2c^{29}+c^{28}+c^{26}+2c^{25}+c^{24}+2c^{21}+c^{20}+2c^{19}+2c^{18}+c^{17}+2c^{15}+c^{14}+c^{12}+c^{11}+c^{10}+c^{9}+c^{8}+c^{7}+2c^{6}+2c^{5}+2}{c^{27}+c^{26}+2c^{23}+2c^{21}+c^{20}+2c^{19}+c^{17}+c^{16}+2c^{14}+2c^{13}+c^{12}+c^{10}+c^{7}+2c^{6}+c^{5}})x_3^2x_4^2+(\frac{c^2}{c^2+2})x_0x_4^3+$$

$$(\frac{2c^{41}+c^{40}+2c^{39}+c^{37}+c^{35}+2c^{34}+c^{33}+2c^{32}+2c^{31}+2c^{30}+2c^{29}+2c^{28}+2c^{26}+2c^{25}+2c^{24}+2c^{22}+2c^{21}+2c^{20}+2c^{19}+c^{18}+c^{17}+2c^{15}+2c^{14}+c^{13}+c^{12}+2c^{11}+2c^{7}+2c}{c^{39}+2c^{38}+c^{36}+2c^{35}+2c^{33}+2c^{32}+c^{30}+c^{29}+c^{28}+2c^{27}+2c^{26}+c^{25}+2c^{22}+2c^{19}+2c^{18}+2c^{17}+c^{16}+2c^{15}+c^{14}+c^{13}+2c^{12}+c^{11}+2c^{10}+2c^{9}+2c^{8}+2c}$$

$$(\frac{c^{40}+c^{39}+2c^{36}+2c^{35}+2c^{34}+c^{32}+c^{31}+2c^{30}+c^{29}+c^{28}+c^{25}+2c^{24}+c^{23}+c^{21}+c^{20}+2c^{19}+2c^{16}+2c^{12}+c^{10}+c^{9}+2c^{8}+c^{7}+2c^{6}+c^{4}+1}{c^{38}+2c^{37}+2c^{36}+2c^{35}+c^{33}+2c^{32}+c^{31}+c^{30}+c^{27}+2c^{26}+c^{25}+2c^{24}+2c^{23}+c^{22}+2c^{20}+2c^{17}+2c^{16}+2c^{15}+2c^{13}+c^{12}+2c^{9}+2c^{8}})x_2x_4^3+$$

$$(\frac{c^{37}+2c^{36}+2c^{34}+2c^{33}+c^{32}+c^{31}+c^{30}+c^{29}+2c^{27}+c^{26}+c^{25}+c^{24}+c^{23}+2c^{21}+2c^{20}+2c^{17}+2c^{16}+c^{15}+c^{14}+c^{12}+2c^{10}+c^{7}+2c^{6}+2c^{5}+2c^{4}+c^{3}+c^{2}+2}{c^{34}+c^{32}+2c^{30}+2c^{29}+2c^{28}+c^{27}+c^{24}+2c^{23}+c^{22}+c^{19}+c^{18}+2c^{16}+2c^{15}+c^{14}+c^{11}+c^{9}+2c^{7}})x_3x_4^3$$