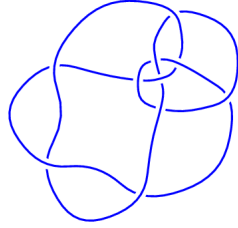
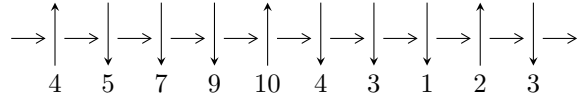


10₁₆₃ (K10n₃₅)

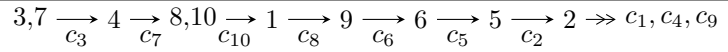


1

Arc Sequences



Solving Sequence



Representation Ideals

$$I = \bigcap_{i=1}^4 I_i^u \bigcap I_1^v$$

$$I_1^u = \langle b^8 - 4b^6 + 2b^5 + 3b^4 - b^3 + 3b^2 - 10b + 7, 3b^7 - 14b^5 - b^4 + 9b^3 + 2b^2 + 14b + 13u - 29, b^7 + b^6 + b^5 + 4b^4 - 6b^3 - 4b^2 + 2b + 13a - 10 \rangle$$

$$I_2^u = \langle b^8 + b^7 - 2b^5 - 8b^4 - 7b^3 + 13b^2 + 8b + 3, -28b^7 - 25b^6 - 17b^5 + 5b^4 + 181b^3 + 72b^2 - 293b + 203u - 1, -44b^7 - 2b^6 + 52b^5 + 99b^4 + 301b^3 - 36b^2 - 941b + 203a + 160 \rangle$$

$$I_3^u = \langle u^6 - 2u^5 + 4u^4 - 4u^3 + 4u^2 - u + 1, -u^5 + u^4 - 2u^3 + a - 2, -u^5 + 2u^4 - 4u^3 + 4u^2 + b - 3u + 1 \rangle$$

$$I_4^u = \langle u^{14} + 5u^{13} + 15u^{12} + 30u^{11} + 47u^{10} + 55u^9 + 48u^8 + 22u^7 - 2u^6 - 17u^5 - 15u^4 - 14u^3 - 4u^2 + u + 5, u^{13} + 5u^{12} + 15u^{11} + 31u^{10} + 50u^9 + 63u^8 + 61u^7 + 42u^6 + 17u^5 + u^4 - 8u^3 - 9u^2 + b - 8u + 1, u^{13} - 10u^{11} - 45u^{10} - 108u^9 - 195u^8 - 267u^7 - 283u^6 - 212u^5 - 102u^4 - 20u^3 + 26u^2 + 5a + 41u + 41 \rangle$$

$$I_1^v = \langle b + 1, v - 1, a \rangle$$

There are 5 irreducible components with 37 representations.

¹The knot diagram image is adapter from “C. Livingston and A. H. Moore, KnotInfo: Table of Knot Invariants, <http://www.indiana.edu/~knotinfo>”

$$\text{I. } I_1^u = \langle b^8 - 4b^6 + 2b^5 + 3b^4 - b^3 + 3b^2 - 10b + 7, 3b^7 + 13u + \dots + 14b - 29, b^7 + b^6 + \dots + 13a - 10 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 0 \\ -0.230769b^7 + 1.07692b^5 + \dots - 1.07692b + 2.23077 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 1 \\ 0.230769b^6 + 0.307692b^5 + \dots + 0.384615b - 0.0769231 \end{pmatrix} \\ a_8 &= \begin{pmatrix} 0.230769b^7 - 1.07692b^5 + \dots + 1.07692b - 2.23077 \\ -0.230769b^7 + 1.07692b^5 + \dots - 1.07692b + 2.23077 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} -0.0769231b^7 - 0.0769231b^6 + \dots - 0.153846b + 0.769231 \\ b \end{pmatrix} \\ a_1 &= \begin{pmatrix} -0.0769231b^7 - 0.0769231b^6 + \dots - 1.15385b + 0.769231 \\ b \end{pmatrix} \\ a_9 &= \begin{pmatrix} 0.615385b^7 + 0.538462b^6 + \dots + 1.76923b - 3.46154 \\ -1 \end{pmatrix} \\ a_6 &= \begin{pmatrix} -0.230769b^7 + 1.07692b^5 + \dots - 1.07692b + 2.23077 \\ 0.307692b^7 + 0.846154b^6 + \dots + 1.84615b - 0.923077 \end{pmatrix} \\ a_5 &= \begin{pmatrix} 0.307692b^7 + 0.384615b^6 + \dots + 0.0769231b - 0.769231 \\ 0.153846b^7 + 0.307692b^6 + \dots + 1.23077b - 0.923077 \end{pmatrix} \\ a_2 &= \begin{pmatrix} 0.461538b^7 + 0.461538b^6 + \dots + 0.923077b - 1.61538 \\ 0.307692b^7 - 0.769231b^5 + \dots + 0.769231b - 1.30769 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

$$\text{(iii) Cusp Shapes} = \frac{44}{13}b^7 + 4b^6 - \frac{136}{13}b^5 - \frac{84}{13}b^4 + \frac{80}{13}b^3 + \frac{12}{13}b^2 + \frac{188}{13}b - \frac{278}{13}$$

(iv) Complex Volumes and Cusp Shapes

Solution to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.070696 + 0.758745I$ $a = -0.878270 + 0.343518I$ $b = -1.77170 - 0.19130I$	$-5.03685 - 2.59539I$	$-13.53952 + 0.91892I$
$u = 1.070696 - 0.758745I$ $a = -0.878270 - 0.343518I$ $b = -1.77170 + 0.19130I$	$-5.03685 + 2.59539I$	$-13.53952 - 0.91892I$
$u = -0.070696 + 0.758745I$ $a = 0.87053 + 1.13328I$ $b = -0.350716 - 1.044375I$	$1.74699 - 2.59539I$	$1.53952 + 0.91892I$
$u = -0.070696 - 0.758745I$ $a = 0.87053 - 1.13328I$ $b = -0.350716 + 1.044375I$	$1.74699 + 2.59539I$	$1.53952 - 0.91892I$
$u = -0.070696 + 0.758745I$ $a = 1.32191 - 0.58540I$ $b = 0.921412 - 0.580396I$	$1.74699 - 2.59539I$	$1.53952 + 0.91892I$
$u = -0.070696 - 0.758745I$ $a = 1.32191 + 0.58540I$ $b = 0.921412 + 0.580396I$	$1.74699 + 2.59539I$	$1.53952 - 0.91892I$
$u = 1.070696 - 0.758745I$ $a = 1.185830 + 0.661666I$ $b = 1.201002 - 0.298580I$	$-5.03685 + 2.59539I$	$-13.53952 - 0.91892I$
$u = 1.070696 + 0.758745I$ $a = 1.185830 - 0.661666I$ $b = 1.201002 + 0.298580I$	$-5.03685 - 2.59539I$	$-13.53952 + 0.91892I$

$$\text{II. } I_2^u = \langle b^8 + b^7 - 2b^5 - 8b^4 - 7b^3 + 13b^2 + 8b + 3, -28b^7 + 203u + \dots - 293b - 1, -44b^7 - 2b^6 + \dots + 203a + 160 \rangle$$

(i) Arc colorings

$$\begin{aligned} a_3 &= \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ a_7 &= \begin{pmatrix} 0 \\ 0.137931b^7 + 0.123153b^6 + \dots + 1.44335b + 0.00492611 \end{pmatrix} \\ a_4 &= \begin{pmatrix} 1 \\ 0.00985222b^7 + 0.182266b^6 + \dots - 1.74384b - 0.581281 \end{pmatrix} \\ a_8 &= \begin{pmatrix} -0.137931b^7 - 0.123153b^6 + \dots - 1.44335b - 0.00492611 \\ 0.137931b^7 + 0.123153b^6 + \dots + 1.44335b + 0.00492611 \end{pmatrix} \\ a_{10} &= \begin{pmatrix} 0.216749b^7 + 0.00985222b^6 + \dots + 4.63547b - 0.788177 \\ b \end{pmatrix} \\ a_1 &= \begin{pmatrix} 0.216749b^7 + 0.00985222b^6 + \dots + 3.63547b - 0.788177 \\ b \end{pmatrix} \\ a_9 &= \begin{pmatrix} -0.674877b^7 - 0.556650b^6 + \dots - 10.4039b - 4.32512 \\ -1 \end{pmatrix} \\ a_6 &= \begin{pmatrix} 0.137931b^7 + 0.123153b^6 + \dots + 1.44335b + 0.00492611 \\ 0.216749b^7 + 0.438424b^6 + \dots + 0.778325b + 0.0689655 \end{pmatrix} \\ a_5 &= \begin{pmatrix} -0.330049b^7 - 0.605911b^6 + \dots - 2.58128b - 4.52709 \\ 0.0886700b^7 + 0.0689655b^6 + \dots + 1.44828b - 0.374384 \end{pmatrix} \\ a_2 &= \begin{pmatrix} 0.197044b^7 - 0.0689655b^6 + \dots + 2.55172b - 2.05419 \\ 0.152709b^7 + 0.0394089b^6 + \dots + 2.54187b + 0.418719 \end{pmatrix} \end{aligned}$$

(ii) Obstruction class = -1

$$\text{(iii) Cusp Shapes} = -\frac{264}{203}b^7 - \frac{12}{203}b^6 + \frac{312}{203}b^5 + \frac{1000}{203}b^4 + \frac{316}{29}b^3 + \frac{596}{203}b^2 - \frac{6052}{203}b - \frac{2694}{203}$$

(iv) Complex Volumes and Cusp Shapes

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.93338 + 1.13249I$ $a = -0.692709 + 0.652910I$ $b = -1.47465 - 0.63084I$	$-3.88602 - 4.68603I$	$-7.29059 + 10.27938I$
$u = 0.93338 - 1.13249I$ $a = -0.692709 - 0.652910I$ $b = -1.47465 + 0.63084I$	$-3.88602 + 4.68603I$	$-7.29059 - 10.27938I$
$u = -0.433380 - 0.525827I$ $a = -2.14039 - 1.49390I$ $b = -0.269251 - 0.341177I$	$0.59615 - 4.68603I$	$-4.70941 + 10.27938I$
$u = -0.433380 + 0.525827I$ $a = -2.14039 + 1.49390I$ $b = -0.269251 + 0.341177I$	$0.59615 + 4.68603I$	$-4.70941 - 10.27938I$
$u = -0.433380 - 0.525827I$ $a = -0.637691 - 0.013525I$ $b = -0.14207 - 1.77290I$	$0.59615 - 4.68603I$	$-4.70941 + 10.27938I$
$u = -0.433380 + 0.525827I$ $a = -0.637691 + 0.013525I$ $b = -0.14207 + 1.77290I$	$0.59615 + 4.68603I$	$-4.70941 - 10.27938I$
$u = 0.93338 - 1.13249I$ $a = 0.970793 + 0.502018I$ $b = 1.385972 - 0.175069I$	$-3.88602 + 4.68603I$	$-7.29059 - 10.27938I$
$u = 0.93338 + 1.13249I$ $a = 0.970793 - 0.502018I$ $b = 1.385972 + 0.175069I$	$-3.88602 - 4.68603I$	$-7.29059 + 10.27938I$

$$\text{III. } I_3^u = \langle u^6 - 2u^5 + 4u^4 - 4u^3 + 4u^2 - u + 1, -u^5 + u^4 - 2u^3 + a - 2, -u^5 + 2u^4 - 4u^3 + 4u^2 + b - 3u + 1 \rangle$$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} u^5 - u^4 + 2u^3 + 2 \\ u^5 - 2u^4 + 4u^3 - 4u^2 + 3u - 1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} u^4 - 2u^3 + 4u^2 - 3u + 3 \\ u^5 - 2u^4 + 4u^3 - 4u^2 + 3u - 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -2u^5 + 4u^4 - 7u^3 + 7u^2 - 6u \\ u^5 - u^4 + 2u^3 - u^2 + u + 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -u^5 + 2u^4 - 4u^3 + 3u^2 - 2u - 1 \\ u^2 - u + 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} u^5 - u^4 + u^3 + u^2 - u + 3 \\ -u^4 + 2u^3 - 3u^2 + 2u - 1 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes = $-3u^5 + 12u^4 - 19u^3 + 23u^2 - 16u + 6$

(iv) Complex Volumes and Cusp Shapes

Solution to I_3^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.034417 - 0.580231I$		
$a = 1.93912 + 0.34991I$	$1.27956 - 3.69612I$	$-0.43558 + 6.39872I$
$b = 0.136288 - 1.137180I$		
$u = -0.034417 + 0.580231I$		
$a = 1.93912 - 0.34991I$	$1.27956 + 3.69612I$	$-0.43558 - 6.39872I$
$b = 0.136288 + 1.137180I$		
$u = 0.096993 - 1.308888I$		
$a = -0.425821 - 0.085567I$	$4.36362 + 4.05299I$	$4.55288 - 5.52472I$
$b = -0.153300 + 0.549053I$		
$u = 0.096993 + 1.308888I$		
$a = -0.425821 + 0.085567I$	$4.36362 - 4.05299I$	$4.55288 + 5.52472I$
$b = -0.153300 - 0.549053I$		
$u = 0.937424 - 0.916243I$		
$a = -1.013299 - 0.581830I$	$-3.99825 + 3.41127I$	$-5.61730 - 2.91658I$
$b = -1.48299 + 0.38301I$		
$u = 0.937424 + 0.916243I$		
$a = -1.013299 + 0.581830I$	$-3.99825 - 3.41127I$	$-5.61730 + 2.91658I$
$b = -1.48299 - 0.38301I$		

IV.

$$I_4^u = \langle u^{14} + 5u^{13} + \dots + u + 5, u^{13} + 5u^{12} + \dots + b + 1, u^{13} - 10u^{11} + \dots + 5a + 41 \rangle$$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ u^2 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -u \\ u \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -\frac{1}{5}u^{13} + 2u^{11} + \dots - \frac{41}{5}u - \frac{41}{5} \\ -u^{13} - 5u^{12} + \dots + 8u - 1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} \frac{4}{5}u^{13} + 5u^{12} + \dots - \frac{81}{5}u - \frac{36}{5} \\ -u^{13} - 5u^{12} + \dots + 8u - 1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} \frac{11}{5}u^{13} + 8u^{12} + \dots + \frac{61}{5}u + \frac{51}{5} \\ -u^{13} - u^{12} + \dots - 14u + 6 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} u \\ u^3 + u \end{pmatrix}$$

$$a_5 = \begin{pmatrix} -\frac{9}{5}u^{13} - 8u^{12} + \dots + \frac{36}{5}u + \frac{26}{5} \\ -u^{13} - 4u^{12} + \dots - 6u - 9 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -\frac{1}{5}u^{13} - u^{12} + \dots - \frac{16}{5}u - \frac{16}{5} \\ -2u^{12} - 9u^{11} + \dots + 14u + 4 \end{pmatrix}$$

(ii) Obstruction class = -1

$$\text{(iii) Cusp Shapes} = -4u^{13} - 5u^{12} + 2u^{11} + 43u^{10} + 98u^9 + 192u^8 + 233u^7 + 231u^6 + 106u^5 + 55u^4 - 27u^3 - 21u^2 - 60u - 6$$

(iv) Complex Volumes and Cusp Shapes

Solution to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.104556 - 0.803929I$		
$a = 0.895316 - 0.749503I$	$-6.35421 + 6.00703I$	$-6.42492 - 3.68584I$
$b = 1.59147 - 0.10810I$		
$u = -1.104556 + 0.803929I$		
$a = 0.895316 + 0.749503I$	$-6.35421 - 6.00703I$	$-6.42492 + 3.68584I$
$b = 1.59147 + 0.10810I$		
$u = -0.91106 - 1.12096I$		
$a = 1.113573 - 0.631511I$	$-5.3164 - 13.2900I$	$-4.73276 + 7.55975I$
$b = 1.72243 + 0.67293I$		
$u = -0.91106 + 1.12096I$		
$a = 1.113573 + 0.631511I$	$-5.3164 + 13.2900I$	$-4.73276 - 7.55975I$
$b = 1.72243 - 0.67293I$		
$u = -0.809699 - 0.855443I$		
$a = -1.48215 + 0.63750I$	$-4.94416 - 4.48113I$	$-10.56248 + 7.82532I$
$b = -1.74544 - 0.75171I$		
$u = -0.809699 + 0.855443I$		
$a = -1.48215 - 0.63750I$	$-4.94416 + 4.48113I$	$-10.56248 - 7.82532I$
$b = -1.74544 + 0.75171I$		
$u = -0.752287 - 0.954057I$		
$a = -0.769408 + 1.137546I$	$-4.62410 - 1.43381I$	$-9.01327 - 1.28996I$
$b = -1.66410 + 0.12170I$		
$u = -0.752287 + 0.954057I$		
$a = -0.769408 - 1.137546I$	$-4.62410 + 1.43381I$	$-9.01327 + 1.28996I$
$b = -1.66410 - 0.12170I$		
$u = 0.17524 - 1.43298I$		
$a = 0.028144 - 0.275446I$	$3.73877 + 3.84212I$	$-7.98139 - 1.57763I$
$b = 0.389777 + 0.088598I$		
$u = 0.17524 + 1.43298I$		
$a = 0.028144 + 0.275446I$	$3.73877 - 3.84212I$	$-7.98139 + 1.57763I$
$b = 0.389777 - 0.088598I$		

Solution to I_4^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.269018 - 0.823102I$	$0.79193 + 2.01282I$	$-1.55516 - 4.15380I$
$a = 0.678836 - 0.196935I$		
$b = -0.020522 + 0.611730I$		
$u = 0.269018 + 0.823102I$	$0.79193 - 2.01282I$	$-1.55516 + 4.15380I$
$a = 0.678836 + 0.196935I$		
$b = -0.020522 - 0.611730I$		
$u = 0.633342 - 0.004347I$	$-1.38615 + 0.45192I$	$-8.23002 - 1.56844I$
$a = 0.435692 - 0.534977I$		
$b = -0.273616 + 0.340717I$		
$u = 0.633342 + 0.004347I$	$-1.38615 - 0.45192I$	$-8.23002 + 1.56844I$
$a = 0.435692 + 0.534977I$		
$b = -0.273616 - 0.340717I$		

$$\mathbf{V. } I_1^v = \langle b + 1, v - 1, a \rangle$$

(i) Arc colorings

$$a_3 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$a_2 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = -6

(iv) Complex Volumes and Cusp Shapes

Solution to I_1^v	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$v = 1.00000$		
$a = 0$	-1.64493	-6.00000
$b = -1.00000$		

VI. u-Polynomials

Crossings	u-Polynomials at each crossings
c_1, c_5	$(u+1)(u^6 + u^5 + 2u^4 + u^3 + u^2 + 1)$ $(u^8 - 2u^7 + 4u^6 + 4u^5 + 3u^4 + 11u^3 + 17u^2 + 12u + 9)$ $(u^8 + u^7 + 2u^6 - 8u^5 + 6u^4 - 3u^3 + 9u^2 - 2u + 1)$ $(u^{14} + 4u^{12} + \dots - 2u + 3)$
c_2, c_4	$(u-1)(u^6 + u^4 + \dots - u + 1)(u^8 + 4u^5 + \dots + 2u + 1)$ $(u^8 + u^7 + \dots - 2u + 3)(u^{14} + u^{13} + \dots + 3u + 1)$
c_3	$u(u^4 + u^3 + u^2 - u + 1)^2(u^4 + 2u^3 + 2u^2 + u + 1)^2$ $(u^6 - 2u^5 + \dots - u + 1)(u^{14} - 5u^{13} + \dots - u + 5)$
c_6, c_7	$u(u^4 + u^3 + u^2 - u + 1)^2(u^4 + 2u^3 + 2u^2 + u + 1)^2$ $(u^6 + 2u^5 + \dots + u + 1)(u^{14} - 5u^{13} + \dots - u + 5)$
c_8, c_{10}	$(u+1)(u^6 - 3u^5 + 4u^4 - 5u^3 + 5u^2 - 2u + 1)$ $(u^8 - 4u^6 + 2u^5 + 3u^4 - u^3 + 3u^2 - 10u + 7)$ $(u^8 + u^7 + \dots + 8u + 3)(u^{14} - 10u^{12} + \dots - 2u + 1)$
c_9	$u(u^4 - 2u^3 + 2u^2 - u + 1)^2(u^4 - u^3 + u^2 + u + 1)^2$ $(u^6 + 3u^5 + \dots - u^2 + 1)(u^{14} + 10u^{13} + \dots + 28u + 5)$

VII. Riley Polynomials

Crossings	Riley Polynomials at each crossings
c_1, c_5	$(y - 1)(y^6 + 3y^5 + 4y^4 + 5y^3 + 5y^2 + 2y + 1)$ $(y^8 + 3y^7 + 32y^6 - 16y^5 + 30y^4 + 71y^3 + 81y^2 + 14y + 1)$ $(y^8 + 4y^7 + 38y^6 + 86y^5 + 123y^4 - 43y^3 + 79y^2 + 162y + 81)$ $(y^{14} + 8y^{13} + \dots + 62y + 9)$
c_2, c_4	$(y - 1)(y^6 + 2y^5 + 5y^4 + 5y^3 + 4y^2 + 3y + 1)$ $(y^8 + 14y^6 - 14y^5 + 27y^4 - 11y^3 + 3y^2 - 2y + 1)$ $(y^8 + 3y^7 + 16y^6 + 4y^5 + 34y^4 - 13y^3 + 37y^2 - 10y + 9)$ $(y^{14} - 5y^{13} + \dots - 13y + 1)$
c_3, c_6, c_7	$y(y^4 + 2y^2 + 3y + 1)^2(y^4 + y^3 + 5y^2 + y + 1)^2$ $(y^6 + 4y^5 + \dots + 7y + 1)(y^{14} + 5y^{13} + \dots - 41y + 25)$
c_8, c_{10}	$(y - 1)(y^6 - y^5 - 4y^4 + 5y^3 + 13y^2 + 6y + 1)$ $(y^8 - 8y^7 + 22y^6 - 22y^5 + 3y^4 + y^3 + 31y^2 - 58y + 49)$ $(y^8 - y^7 - 12y^6 + 36y^5 + 26y^4 - 225y^3 + 233y^2 + 14y + 9)$ $(y^{14} - 20y^{13} + \dots - 6y + 1)$
c_9	$y(y^4 + 2y^2 + 3y + 1)^2(y^4 + y^3 + 5y^2 + y + 1)^2$ $(y^6 - y^5 + \dots - 2y + 1)(y^{14} + 26y^{12} + \dots + 246y + 25)$