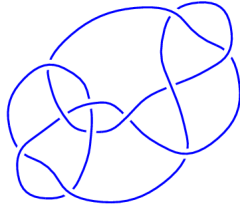
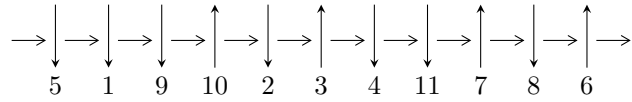


11a₇₁ (K11a₇₁)

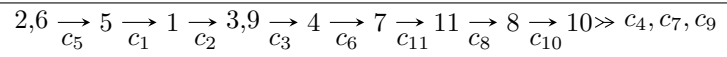


1

Arc Sequences



Solving Sequence



Representation Ideals

$$I = \bigcap_{i=1}^2 I_i^u$$

$$I_1^u = \langle u - 1, a + 1, b + 2 \rangle$$

$$I_2^u = \langle u^{80} + 2u^{79} + \dots + 5u + 1, 2.93692 \times 10^{25}u^{79} + 1.32700 \times 10^{26}u^{78} + \dots + 1.29163 \times 10^{26}a - 1.04145 \times 10^{26} \\ 3.13922 \times 10^{25}u^{79} + 5.43494 \times 10^{25}u^{78} + \dots + 1.43514 \times 10^{25}b + 5.43494 \times 10^{25} \rangle$$

There are 2 irreducible components with 81 representations.

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

$$\mathbf{I. } I_1^u = \langle u - 1, a + 1, b + 2 \rangle$$

(i) Arc colorings

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

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

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

$$a_1 = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_9 = \begin{pmatrix} -1 \\ -2 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ 2 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

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

$$a_{10} = \begin{pmatrix} -1 \\ -2 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -1 \\ -2 \end{pmatrix}$$

(ii) Obstruction class = 1

(iii) Cusp Shapes =unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_1^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.00000$		
$a = -1.00000$	-3.28987	-12.0000
$b = -2.00000$		

$$\text{II. } J_2^u = \langle u^{80} + 2u^{79} + \dots + 5u + 1, 2.94 \times 10^{25}u^{79} + 1.33 \times 10^{26}u^{78} + \dots + 1.29 \times 10^{26}a - 1.04 \times 10^{26}, 3.14 \times 10^{25}u^{79} + 5.43 \times 10^{25}u^{78} + \dots + 1.44 \times 10^{25}b + 5.43 \times 10^{25} \rangle$$

(i) Arc colorings

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

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

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

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

$$a_3 = \begin{pmatrix} u^4 - u^2 + 1 \\ u^4 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -0.227381u^{79} - 1.02738u^{78} + \dots - 0.813586u + 0.806310 \\ -2.18739u^{79} - 3.78703u^{78} + \dots - 10.3818u - 3.78703 \end{pmatrix}$$

$$a_4 = \begin{pmatrix} 2.35995u^{79} + 3.16571u^{78} + \dots + 9.85817u + 2.44324 \\ 7.31499u^{79} + 8.92076u^{78} + \dots + 30.7605u + 8.92076 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} u^9 - 2u^7 + 3u^5 - 2u^3 + u \\ u^9 - u^7 + u^5 + u \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} -u^2 + 1 \\ -u^4 \end{pmatrix}$$

$$a_8 = \begin{pmatrix} -0.193492u^{79} - 0.993492u^{78} + \dots + 0.0597437u + 0.0232540 \\ -1.95349u^{79} - 3.55342u^{78} + \dots - 9.43041u - 3.55341 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.259921u^{79} - 1.05992u^{78} + \dots - 1.11230u + 0.690039 \\ -2.41992u^{79} - 4.01996u^{78} + \dots - 11.2298u - 4.01996 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -0.259921u^{79} - 1.05992u^{78} + \dots - 1.11230u + 0.690039 \\ -2.41992u^{79} - 4.01996u^{78} + \dots - 11.2298u - 4.01996 \end{pmatrix}$$

(ii) Obstruction class = -1

(iii) Cusp Shapes = unknown

(iv) Complex Volumes and Cusp Shapes

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.191153 - 0.227672I$ $a = 0.634306 - 0.761625I$ $b = 0.88100 - 1.49748I$	$-3.84602 + 1.16588I$	$-5.92246 - 9.99851I$
$u = -1.191153 + 0.227672I$ $a = 0.634306 + 0.761625I$ $b = 0.88100 + 1.49748I$	$-3.84602 - 1.16588I$	$-5.92246 + 9.99851I$
$u = -1.17701$ $a = 0.632361$ $b = 0.893580$	-2.75709	8.86822
$u = -1.169165 - 0.443646I$ $a = 0.023634 - 0.845694I$ $b = 0.192160 - 0.753579I$	$-7.65032 + 0.52064I$	$-10.91177 - 2.11369I$
$u = -1.169165 + 0.443646I$ $a = 0.023634 + 0.845694I$ $b = 0.192160 + 0.753579I$	$-7.65032 - 0.52064I$	$-10.91177 + 2.11369I$
$u = -1.130221 - 0.587955I$ $a = -2.01348 - 0.72410I$ $b = -3.78872 - 1.49958I$	$-2.6682 - 17.3873I$	$-5.42575 + 10.65398I$
$u = -1.130221 + 0.587955I$ $a = -2.01348 + 0.72410I$ $b = -3.78872 + 1.49958I$	$-2.6682 + 17.3873I$	$-5.42575 - 10.65398I$
$u = -1.107908 - 0.578539I$ $a = 1.010647 + 0.936041I$ $b = 2.31486 + 2.22056I$	$1.28682 - 11.11430I$	$-2.75291 + 9.85263I$
$u = -1.107908 + 0.578539I$ $a = 1.010647 - 0.936041I$ $b = 2.31486 - 2.22056I$	$1.28682 + 11.11430I$	$-2.75291 - 9.85263I$
$u = -1.103748 - 0.554364I$ $a = 1.95098 + 0.64959I$ $b = 3.90757 + 0.89925I$	$-3.76245 - 8.78286I$	$-9.29177 + 9.93226I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.103748 + 0.554364I$ $a = 1.95098 - 0.64959I$ $b = 3.90757 - 0.89925I$	$-3.76245 + 8.78286I$	$-9.29177 - 9.93226I$
$u = -1.092077 - 0.530795I$ $a = 0.653426 + 0.286604I$ $b = 0.809905 - 0.623961I$	$-4.75974 - 4.95618I$	$-11.44465 + 4.26355I$
$u = -1.092077 + 0.530795I$ $a = 0.653426 - 0.286604I$ $b = 0.809905 + 0.623961I$	$-4.75974 + 4.95618I$	$-11.44465 - 4.26355I$
$u = -1.045003 - 0.507333I$ $a = -0.438277 - 0.940664I$ $b = -1.44240 - 2.26009I$	$-2.30319 - 1.88747I$	$-6.90646 - 0.67672I$
$u = -1.045003 + 0.507333I$ $a = -0.438277 + 0.940664I$ $b = -1.44240 + 2.26009I$	$-2.30319 + 1.88747I$	$-6.90646 + 0.67672I$
$u = -1.031484 - 0.286770I$ $a = -2.22695 + 2.33502I$ $b = -1.88467 + 5.18266I$	$-3.78449 - 0.73170I$	$12.8102 + 21.5381I$
$u = -1.031484 + 0.286770I$ $a = -2.22695 - 2.33502I$ $b = -1.88467 - 5.18266I$	$-3.78449 + 0.73170I$	$12.8102 - 21.5381I$
$u = -1.017555 - 0.366491I$ $a = 0.555590 - 0.608325I$ $b = 0.56573 - 2.02589I$	$-2.69872 - 1.44530I$	$-8.31672 + 0.31990I$
$u = -1.017555 + 0.366491I$ $a = 0.555590 + 0.608325I$ $b = 0.56573 + 2.02589I$	$-2.69872 + 1.44530I$	$-8.31672 - 0.31990I$
$u = -1.001244 - 0.581180I$ $a = -1.25904 - 0.79577I$ $b = -2.23468 - 1.14533I$	$3.04528 - 1.12254I$	$0.397140 + 0.783025I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -1.001244 + 0.581180I$ $a = -1.25904 + 0.79577I$ $b = -2.23468 + 1.14533I$	$3.04528 + 1.12254I$	$0.397140 - 0.783025I$
$u = -0.993582 - 0.219652I$ $a = -0.084489 - 0.170421I$ $b = -0.804974 - 0.110018I$	$-1.76831 - 0.41384I$	$-5.89768 + 1.36191I$
$u = -0.993582 + 0.219652I$ $a = -0.084489 + 0.170421I$ $b = -0.804974 + 0.110018I$	$-1.76831 + 0.41384I$	$-5.89768 - 1.36191I$
$u = -0.950417 - 0.625173I$ $a = 0.627140 + 0.807365I$ $b = 1.14563 + 1.97930I$	$0.16239 + 4.42235I$	$-2.61284 - 2.30309I$
$u = -0.950417 + 0.625173I$ $a = 0.627140 - 0.807365I$ $b = 1.14563 - 1.97930I$	$0.16239 - 4.42235I$	$-2.61284 + 2.30309I$
$u = -0.633725 - 0.710008I$ $a = -1.45155 - 0.75488I$ $b = 0.256439 - 0.056529I$	$1.10017 - 9.52896I$	$-1.23112 + 7.63149I$
$u = -0.633725 + 0.710008I$ $a = -1.45155 + 0.75488I$ $b = 0.256439 + 0.056529I$	$1.10017 + 9.52896I$	$-1.23112 - 7.63149I$
$u = -0.562648 - 0.677266I$ $a = 1.15591 + 1.53865I$ $b = 0.303931 + 0.253512I$	$4.34092 - 3.75201I$	$2.40820 + 5.29181I$
$u = -0.562648 + 0.677266I$ $a = 1.15591 - 1.53865I$ $b = 0.303931 - 0.253512I$	$4.34092 + 3.75201I$	$2.40820 - 5.29181I$
$u = -0.527849 - 0.562689I$ $a = 1.77862 + 0.62507I$ $b = -0.143641 - 0.453635I$	$-0.74428 - 2.39884I$	$-3.80212 + 6.62818I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.527849 + 0.562689I$ $a = 1.77862 - 0.62507I$ $b = -0.143641 + 0.453635I$	$-0.74428 + 2.39884I$	$-3.80212 - 6.62818I$
$u = -0.381093 - 0.751489I$ $a = -1.56876 - 1.20506I$ $b = 0.224685 + 0.249500I$	$3.42648 + 6.07271I$	$0.67730 - 5.78894I$
$u = -0.381093 + 0.751489I$ $a = -1.56876 + 1.20506I$ $b = 0.224685 - 0.249500I$	$3.42648 - 6.07271I$	$0.67730 + 5.78894I$
$u = -0.363856$ $a = 0.858090$ $b = -1.39437$	-2.38530	-2.53006
$u = -0.358068 - 0.799824I$ $a = 1.24458 + 2.39226I$ $b = -0.060260 + 0.174624I$	$-0.37727 + 12.19403I$	$-2.40584 - 6.91147I$
$u = -0.358068 + 0.799824I$ $a = 1.24458 - 2.39226I$ $b = -0.060260 - 0.174624I$	$-0.37727 - 12.19403I$	$-2.40584 + 6.91147I$
$u = -0.349116 - 0.697052I$ $a = -1.01180 - 2.57817I$ $b = -0.311489 - 0.024997I$	$-1.57621 + 3.96915I$	$-5.87435 - 6.27693I$
$u = -0.349116 + 0.697052I$ $a = -1.01180 + 2.57817I$ $b = -0.311489 + 0.024997I$	$-1.57621 - 3.96915I$	$-5.87435 + 6.27693I$
$u = -0.325329 - 0.604214I$ $a = 0.043257 - 0.905183I$ $b = -0.883800 - 0.481699I$	$-2.59935 + 0.42981I$	$-7.94943 - 0.49689I$
$u = -0.325329 + 0.604214I$ $a = 0.043257 + 0.905183I$ $b = -0.883800 + 0.481699I$	$-2.59935 - 0.42981I$	$-7.94943 + 0.49689I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = -0.042883 - 0.748508I$ $a = 0.807515 - 0.085962I$ $b = 0.620447 + 0.295702I$	$-4.35199 - 4.81540I$	$-6.00555 + 5.45939I$
$u = -0.042883 + 0.748508I$ $a = 0.807515 + 0.085962I$ $b = 0.620447 - 0.295702I$	$-4.35199 + 4.81540I$	$-6.00555 - 5.45939I$
$u = 0.022176 - 0.470783I$ $a = 1.223715 + 0.049549I$ $b = -0.228724 - 0.451028I$	$-0.24724 - 1.52128I$	$-2.36985 + 4.33953I$
$u = 0.022176 + 0.470783I$ $a = 1.223715 - 0.049549I$ $b = -0.228724 + 0.451028I$	$-0.24724 + 1.52128I$	$-2.36985 - 4.33953I$
$u = 0.322943 - 0.804382I$ $a = 1.18389 - 1.24966I$ $b = 0.081562 - 0.237623I$	$0.97731 - 4.20187I$	$-0.27939 + 7.34151I$
$u = 0.322943 + 0.804382I$ $a = 1.18389 + 1.24966I$ $b = 0.081562 + 0.237623I$	$0.97731 + 4.20187I$	$-0.27939 - 7.34151I$
$u = 0.393973 - 0.671200I$ $a = -2.83796 + 3.66333I$ $b = 0.129044 + 1.075226I$	$0.103983 - 1.397742I$	$2.4292 - 14.3351I$
$u = 0.393973 + 0.671200I$ $a = -2.83796 - 3.66333I$ $b = 0.129044 - 1.075226I$	$0.103983 + 1.397742I$	$2.4292 + 14.3351I$
$u = 0.435068 - 0.737884I$ $a = -0.075626 + 0.399338I$ $b = 0.232160 - 0.204773I$	$2.69064 - 1.31991I$	$2.13735 - 0.80724I$
$u = 0.435068 + 0.737884I$ $a = -0.075626 - 0.399338I$ $b = 0.232160 + 0.204773I$	$2.69064 + 1.31991I$	$2.13735 + 0.80724I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 0.457682 - 0.625241I$ $a = 2.19567 - 2.35041I$ $b = -0.829055 - 0.454704I$	$0.412068 - 0.321069I$	$-4.01206 + 8.91676I$
$u = 0.457682 + 0.625241I$ $a = 2.19567 + 2.35041I$ $b = -0.829055 + 0.454704I$	$0.412068 + 0.321069I$	$-4.01206 - 8.91676I$
$u = 0.529228 - 0.750028I$ $a = 0.099506 - 0.743958I$ $b = 0.170641 - 0.235530I$	$3.02838 - 1.37936I$	$3.64616 + 3.11353I$
$u = 0.529228 + 0.750028I$ $a = 0.099506 + 0.743958I$ $b = 0.170641 + 0.235530I$	$3.02838 + 1.37936I$	$3.64616 - 3.11353I$
$u = 0.666948 - 0.650580I$ $a = -0.265794 + 0.880885I$ $b = 0.417972 - 0.103624I$	$2.84471 + 1.91218I$	$3.52882 - 5.17190I$
$u = 0.666948 + 0.650580I$ $a = -0.265794 - 0.880885I$ $b = 0.417972 + 0.103624I$	$2.84471 - 1.91218I$	$3.52882 + 5.17190I$
$u = 0.924365 - 0.563218I$ $a = 0.808180 + 0.184164I$ $b = 1.61913 - 0.24777I$	$2.08735 + 2.83654I$	$2.00024 - 2.68276I$
$u = 0.924365 + 0.563218I$ $a = 0.808180 - 0.184164I$ $b = 1.61913 + 0.24777I$	$2.08735 - 2.83654I$	$2.00024 + 2.68276I$
$u = 1.027725 - 0.623923I$ $a = -0.763882 + 0.035932I$ $b = -1.229081 - 0.172448I$	$1.55978 + 6.58436I$	$0.38599 - 8.94891I$
$u = 1.027725 + 0.623923I$ $a = -0.763882 - 0.035932I$ $b = -1.229081 + 0.172448I$	$1.55978 - 6.58436I$	$0.38599 + 8.94891I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.059009 - 0.544082I$ $a = -1.81953 + 1.04085I$ $b = -3.02873 + 2.97647I$	$-1.35793 + 4.93977I$	$-6.22356 - 11.09851I$
$u = 1.059009 + 0.544082I$ $a = -1.81953 - 1.04085I$ $b = -3.02873 - 2.97647I$	$-1.35793 - 4.93977I$	$-6.22356 + 11.09851I$
$u = 1.067679 - 0.392778I$ $a = -0.111831 + 0.610879I$ $b = 0.59539 + 1.61424I$	$-2.94524 + 4.81984I$	$-7.83012 - 8.40965I$
$u = 1.067679 + 0.392778I$ $a = -0.111831 - 0.610879I$ $b = 0.59539 - 1.61424I$	$-2.94524 - 4.81984I$	$-7.83012 + 8.40965I$
$u = 1.075993 - 0.321255I$ $a = -0.969673 - 0.596409I$ $b = -0.935782 + 0.089198I$	$-6.18593 + 2.21505I$	$-14.4791 - 3.5229I$
$u = 1.075993 + 0.321255I$ $a = -0.969673 + 0.596409I$ $b = -0.935782 - 0.089198I$	$-6.18593 - 2.21505I$	$-14.4791 + 3.5229I$
$u = 1.078906 - 0.266597I$ $a = -1.36745 - 1.21556I$ $b = -2.59743 - 1.94477I$	$-5.69690 - 1.47728I$	$-13.26865 + 3.59149I$
$u = 1.078906 + 0.266597I$ $a = -1.36745 + 1.21556I$ $b = -2.59743 + 1.94477I$	$-5.69690 + 1.47728I$	$-13.26865 - 3.59149I$
$u = 1.085722 - 0.197443I$ $a = -0.023020 - 1.044414I$ $b = -0.63204 - 2.26814I$	$-1.19443 - 3.73477I$	$-5.95301 + 4.95422I$
$u = 1.085722 + 0.197443I$ $a = -0.023020 + 1.044414I$ $b = -0.63204 + 2.26814I$	$-1.19443 + 3.73477I$	$-5.95301 - 4.95422I$

Solution to I_2^u	$\sqrt{-1}(\text{vol} + \sqrt{-1}CS)$	Cusp shape
$u = 1.086100 - 0.555013I$ $a = 3.04220 - 2.11141I$ $b = 4.63858 - 4.07536I$	$-1.91081 + 6.16425I$	$2.38713 + 7.83371I$
$u = 1.086100 + 0.555013I$ $a = 3.04220 + 2.11141I$ $b = 4.63858 + 4.07536I$	$-1.91081 - 6.16425I$	$2.38713 - 7.83371I$
$u = 1.087297 - 0.584528I$ $a = 0.429157 + 0.100796I$ $b = 1.096520 - 0.160168I$	$0.75605 + 6.35925I$	$-1.42144 - 3.55958I$
$u = 1.087297 + 0.584528I$ $a = 0.429157 - 0.100796I$ $b = 1.096520 + 0.160168I$	$0.75605 - 6.35925I$	$-1.42144 + 3.55958I$
$u = 1.142032 - 0.580131I$ $a = -1.21044 + 0.78836I$ $b = -2.13356 + 1.43409I$	$-1.44455 + 9.36809I$	$-4.50729 - 10.69470I$
$u = 1.142032 + 0.580131I$ $a = -1.21044 - 0.78836I$ $b = -2.13356 - 1.43409I$	$-1.44455 - 9.36809I$	$-4.50729 + 10.69470I$
$u = 1.155907 - 0.191256I$ $a = 1.18018 + 1.12873I$ $b = 2.14083 + 2.45001I$	$-5.29538 - 9.47417I$	$-8.59979 + 5.58527I$
$u = 1.155907 + 0.191256I$ $a = 1.18018 - 1.12873I$ $b = 2.14083 - 2.45001I$	$-5.29538 + 9.47417I$	$-8.59979 - 5.58527I$
$u = 1.165949 - 0.406590I$ $a = 0.106217 + 0.764241I$ $b = -0.424755 + 0.599433I$	$-7.89762 + 8.83460I$	$-10.28104 - 8.00686I$
$u = 1.165949 + 0.406590I$ $a = 0.106217 - 0.764241I$ $b = -0.424755 - 0.599433I$	$-7.89762 - 8.83460I$	$-10.28104 + 8.00686I$

III. u-Polynomials

Crossings	u-Polynomials at each crossings
c_1	$(u - 1)(u^{80} + 2u^{79} + \dots + 5u + 1)$
c_2	$(u + 1)(u^{80} + 38u^{79} + \dots + 5u + 1)$
c_3	$(u + 1)(u^{80} + 35u^{78} + \dots + 27u - 1)$
c_4	$(u + 1)(u^{80} + 2u^{79} + \dots + 89u + 19)$
c_5	$(u + 1)(u^{80} + 2u^{79} + \dots + 5u + 1)$
c_6	$(u + 1)(u^{80} - 15u^{78} + \dots + 56453u + 8017)$
c_7	$(u + 1)(u^{80} + 4u^{79} + \dots - u - 1)$
c_8	$(u - 1)(u^{80} + 2u^{79} + \dots - 5u - 1)$
c_9	$(u)(u^{80} + 13u^{79} + \dots + 6u + 2)$
c_{10}	$(u + 1)(u^{80} + 2u^{79} + \dots - 5u - 1)$
c_{11}	$(u)(u^{80} + 3u^{79} + \dots - 1824u - 288)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossings
c_1, c_5	$(y - 1)(y^{80} - 38y^{79} + \dots - 5y + 1)$
c_2	$(y - 1)(y^{80} + 10y^{79} + \dots - 73y + 1)$
c_3	$(y - 1)(y^{80} + 70y^{79} + \dots - 129y + 1)$
c_4	$(y - 1)(y^{80} + 78y^{79} + \dots + 10547y + 361)$
c_6	$(y - 1)(y^{80} - 30y^{79} + \dots - 2.16019 \times 10^9 y + 6.42723 \times 10^7)$
c_7	$(y - 1)(y^{80} - 14y^{79} + \dots - 5y + 1)$
c_8	$(y - 1)(y^{80} - 50y^{79} + \dots + 55y + 1)$
c_9	$(y)(y^{80} - 9y^{79} + \dots - 64y + 4)$
c_{10}	$(y - 1)(y^{80} - 50y^{79} + \dots + 55y + 1)$
c_{11}	$(y)(y^{80} + 15y^{79} + \dots + 2084544y + 82944)$