

Tables of Non-Adjacent Numbers, Characteristic Polynomials and Topological Indices.

II. Mono- and Bicyclic Graphs

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One of the present authors has defined and discussed the non-adjacent number $p(G, k)$ and topological index Z_G for a graph G , or the carbon skeleton of a saturated hydrocarbon molecule.¹⁾ The tables of the set of $p(G, k)$'s and Z_G for all the tree graphs with $N \leq 10$, N being the number of the points in G , are given in the preceding paper of this series.²⁾

Tables I and II give the set of $p(G, k)$'s, characteristic polynomial $P_G(X)$ and Z_G for those mono- and bicyclic graphs with $N \leq 8$ in which any point has at most four neighbors (Class A in Ref. 2). Namely, we are concerned with the carbon atom skeletons of the lower members of mono- and bicyclic hydrocarbons. Contrary to the case of the tree graphs the coefficients of $P_G(X)$ do not correspond to $p(G, k)$'s. Table III gives the list of the group of the graphs with an identical characteristic polynomial but with different structures.

References

- 1) H. Hosoya: Bull. Chem. Soc. Japan, 44 (1971), 2332.
- 2) K. Mizutani, K. Kawasaki and H. Hosoya: Natural Science Rept., Ochanomizu University, 22 (1971), 39.

Table I-1

N	No	$P_G(X)$	$P(G,k)$					Z	
			k=	0	1	2	3		4
3	1	X^3-3X+2		1	3				4
4	1	X^4-4X^2		1	4	2			7
	2	X^4-4X^2+2X+1		1	4	1			6
5	1	X^5-5X^3+5X+2		1	5	5			11
	2	X^5-5X^3+2X		1	5	4			10
	3	$X^5-5X^3-2X^2+4X-2$		1	5	4			10
	4	$X^5-5X^3+2X^2+2X$		1	5	2			8
	5	$X^5-5X^3+2X^2+3X$		1	5	3			9
6	1	$X^6-6X^4+9X^2-4$		1	6	9	2		18
	2	$X^6-6X^4+8X^2+2X-1$		1	6	8	1		16
	3	$X^6-6X^4+6X^2$		1	6	8	2		17
	4	$X^6-6X^4+4X^2$		1	6	6			13

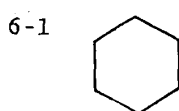
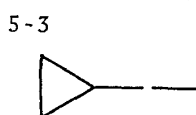
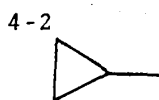
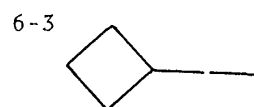
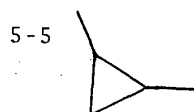
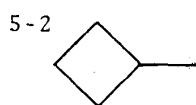
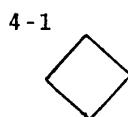
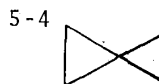
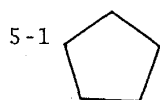
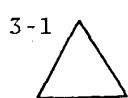


Table I-2

N	No		$P_G(X)$		$P(G,k)$					Z
					k=	0	1	2	3	
6	5	X^6-6X^4	$+5X^2$	-1		1	6	7	1	15
	6	X^6-6X^4	$+5X^2$			1	6	7		14
	7	$X^6-6X^4+2X^3+8X^2-4X-1$				1	6	8	1	16
	8	$X^6-6X^4+2X^3+7X^2-4X$				1	6	7		14
	9	$X^6-6X^4+2X^3+6X^2-2X-1$				1	6	6	1	14
	10	$X^6-6X^4+2X^3+7X^2-2X-1$				1	6	7	1	15
	11	$X^6-6X^4+2X^3+5X^2$				1	6	5		12
	12	$X^6-6X^4+2X^3+6X^2$	-1			1	6	6	1	14
7	1	X^7-7X^5	$+14X^3$	$-7X+2$		1	7	14	7	29
	2	X^7-7X^5	$+13X^3$	$-7X$		1	7	13	5	26
	3	X^7-7X^5	$+13X^3+2X^2-6X-2$			1	7	13	6	27
	4	X^7-7X^5	$+11X^3+2X^2-2X$			1	7	11	2	21

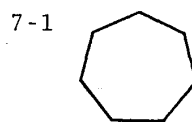
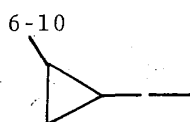
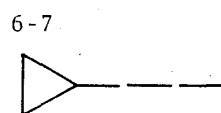
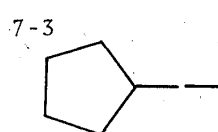
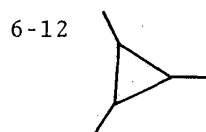
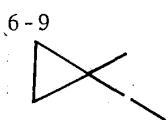
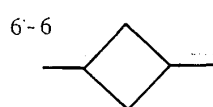
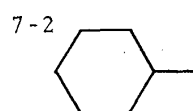
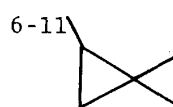
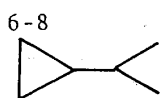
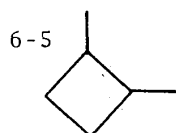


Table I-3

N	No		$P_G(X)$	$P(G, k)$					Z
				k=	0	1	2	3	
7	5	$X^7 - 7X^5$	$+12X^3 + 2X^2 - 4X$	1	7	12	4		24
	6	$X^7 - 7X^5$	$+12X^3 + 2X^2 - 3X$	1	7	12	3		23
	7	$X^7 - 7X^5$	$+11X^3 - 2X$	1	7	13	6		27
	8	$X^7 - 7X^5$	$+10X^3$	1	7	12	4		24
	9	$X^7 - 7X^5$	$+9X^3 - 2X$	1	7	11	4		23
	10	$X^7 - 7X^5$	$+10X^3 - 3X$	1	7	12	5		25
	11	$X^7 - 7X^5$	$+10X^3 - 2X$	1	7	12	4		24
	12	$X^7 - 7X^5$	$+8X^3 - 2X$	1	7	10	2		20
	13	$X^7 - 7X^5$	$+8X^3$	1	7	10			18
	14	$X^7 - 7X^5$	$+9X^3 - 3X$	1	7	11	3		22
	15	$X^7 - 7X^5 + 2X^4 + 13X^3 - 6X^2 - 5X + 2$		1	7	13	5		26
	16	$X^7 - 7X^5 + 2X^4 + 12X^3 - 6X^2 - 2X$		1	7	12	2		22

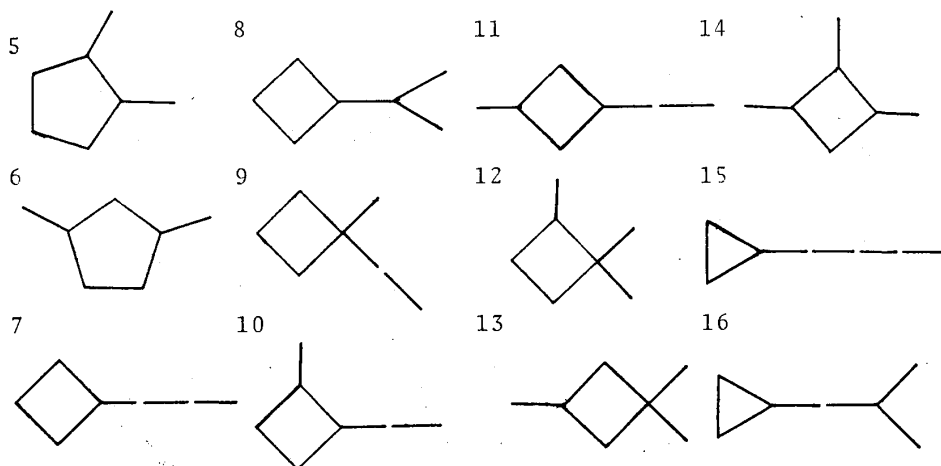


Table I-4

N	No	$P_G(X)$	$p(G, k)$					Z
			k=	0	1	2	3	
7	17	$X^7 - 7X^5 + 2X^4 + 12X^3 - 6X^2 - 4X + 2$	1	7	12	4		24
	18	$X^7 - 7X^5 + 2X^4 + 10X^3 - 6X^2$	1	7	10			18
	19	$X^7 - 7X^5 + 2X^4 + 11X^3 - 4X^2 - 3X$	1	7	11	3		22
	20	$X^7 - 7X^5 + 2X^4 + 12X^3 - 4X^2 - 4X$	1	7	12	4		24
	21	$X^7 - 7X^5 + 2X^4 + 10X^3 - 4X^2 - 2X$	1	7	10	2		20
	22	$X^7 - 7X^5 + 2X^4 + 11X^3 - 4X^2 - 2X$	1	7	11	2		21
	23	$X^7 - 7X^5 + 2X^4 + 11X^3 - 4X^2 - 5X + 2$	1	7	11	5		24
	24	$X^7 - 7X^5 + 2X^4 + 12X^3 - 4X^2 - 5X + 2$	1	7	12	5		25
	25	$X^7 - 7X^5 + 2X^4 + 10X^3 - 2X^2 - 3X$	1	7	10	3		21
	26	$X^7 - 7X^5 + 2X^4 + 10X^3 - 2X^2 - 2X$	1	7	10	2		20
	27	$X^7 - 7X^5 + 2X^4 + 11X^3 - 2X^2 - 4X$	1	7	11	4		23
	28	$X^7 - 7X^5 + 2X^4 + 8X^3$	1	7	8			16
	29	$X^7 - 7X^5 + 2X^4 + 9X^3 - 2X$	1	7	9	2		19

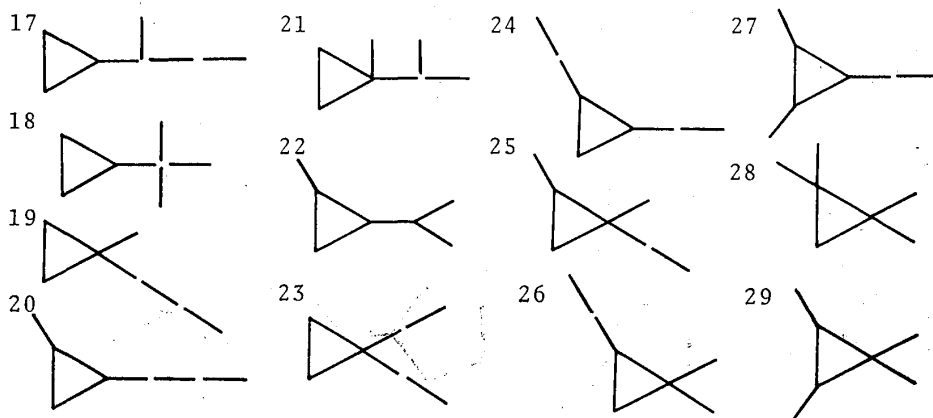


Table I-5

No		$P_G(X)$		$P(G,k)$					Z	
				k=	0	1	2	3		4
1	X^8-8X^6	$+20X^4$	$-16X^2$		1	8	20	16	2	47
2	X^8-8X^6	$+19X^4$	$-13X^2+2X+1$		1	8	19	13	1	42
3	X^8-8X^6	$+19X^4$	$-16X^2$	$+4$	1	8	19	14	2	44
4	X^8-8X^6	$+17X^4$	$-10X^2$		1	8	17	8		34
5	X^8-8X^6	$+18X^4$	$-13X^2$	$+1$	1	8	18	11	1	39
6	X^8-8X^6	$+18X^4$	$-12X^2$		1	8	18	10		37
7	X^8-8X^6	$+18X^4$	$-12X^2$	$+1$	1	8	18	10	1	38
8	X^8-8X^6	$+19X^4+2X^3-14X^2-4X+1$			1	8	19	14	1	43
9	X^8-8X^6	$+18X^4+2X^3-11X^2-4X$			1	8	18	11		38
10	X^8-8X^6	$+17X^4+2X^3-10X^2-2X+1$			1	8	17	10	1	37
11	X^8-8X^6	$+18X^4+2X^3-12X^2-2X+1$			1	8	18	12	1	40
12	X^8-8X^6	$+18X^4+2X^3-11X^2-2X+1$			1	8	18	11	1	39

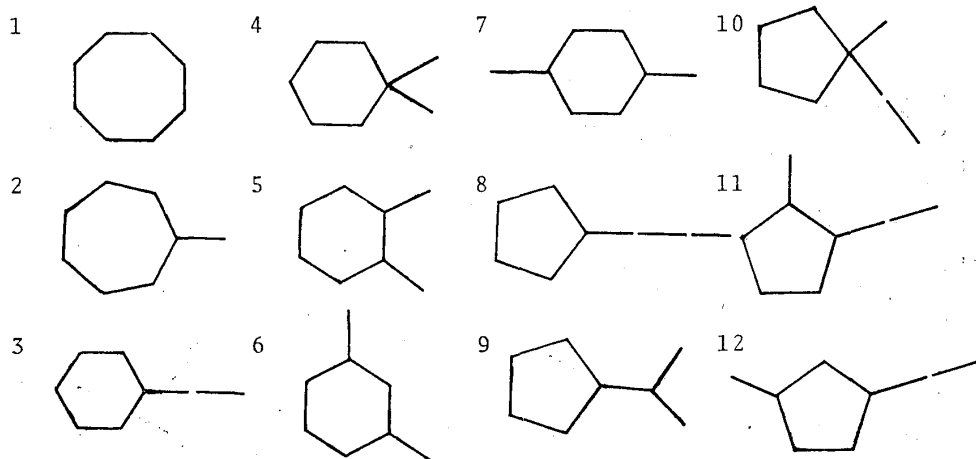


Table I-6

No		$P_G(X)$		$P(G,k)$					Z	
				k=	0	1	2	3		4
13	X^8-8X^6	$+16X^4+2X^3-7X^2$		1	8	16	7		32	
14	X^8-8X^6	$+16X^4+2X^3-5X^2$		1	8	16	5		30	
15	X^8-8X^6	$+17X^4+2X^3-9X^2$	+1	1	8	17	9	1	36	
16	X^8-8X^6	$+17X^4+2X^3-8X^2$		1	8	17	8		34	
17	X^8-8X^6	$+17X^4$		1	8	19	14	2	44	
18	X^8-8X^6	$+16X^4$		1	8	18	10		37	
19	X^8-8X^6	$+16X^4$		1	8	18	12	2	41	
20	X^8-8X^6	$+14X^4$		1	8	16	6		31	
21	X^8-8X^6	$+15X^4$		1	8	17	10		36	
22	X^8-8X^6	$+16X^4$	$-8X^2$	+1	1	8	18	12	1	40
23	X^8-8X^6	$+16X^4$	$-7X^2$		1	8	18	11		38
24	X^8-8X^6	$+14X^4$	$-4X^2$		1	8	16	8		33

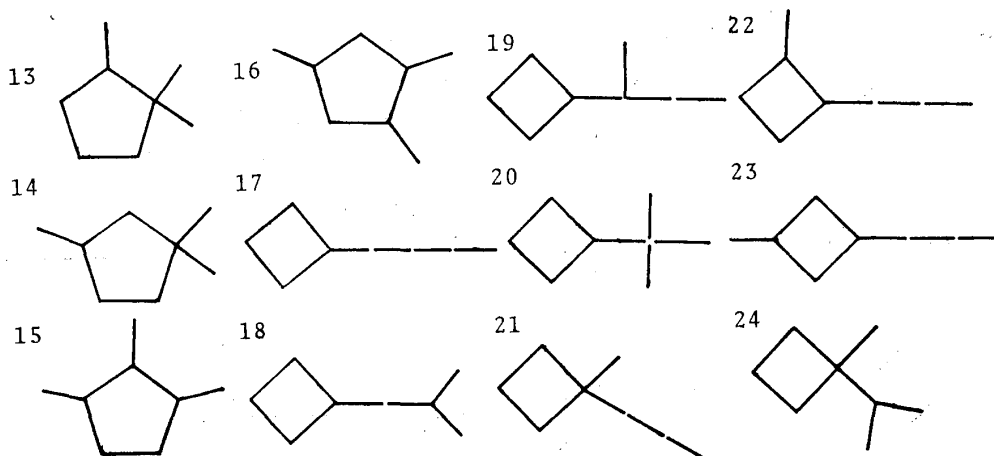


Table I-7

No	$P_G(X)$			$P(G,k)$					Z	
				k=	0	1	2	3		4
25	X^8-8X^6	$+15X^4$	$-5X^2$		1	8	17	9		35
26	X^8-8X^6	$+15X^4$	$-4X^2$		1	8	17	8		34
27	X^8-8X^6	$+15X^4$	$-8X^2$		1	8	17	12	2	40
28	X^8-8X^6	$+16X^4$	$-9X^2$		1	8	18	13	2	42
29	X^8-8X^6	$+16X^4$	$-8X^2$		1	8	18	12	2	41
30	X^8-8X^6	$+14X^4$	$-7X^2$	+1	1	8	16	9	1	35
31	X^8-8X^6	$+14X^4$	$-5X^2$		1	8	16	7		32
32	X^8-8X^6	$+14X^4$	$-6X^2$		1	8	16	8		33
33	X^8-8X^6	$+15X^4$	$-8X^2$	+1	1	8	17	10	1	37
34	X^8-8X^6	$+15X^4$	$-8X^2$		1	8	17	10		36
35	X^8-8X^6	$+14X^4$	$-4X^2$		1	8	16	6		31
36	X^8-8X^6	$+12X^4$	$-4X^2$		1	8	14	4		27

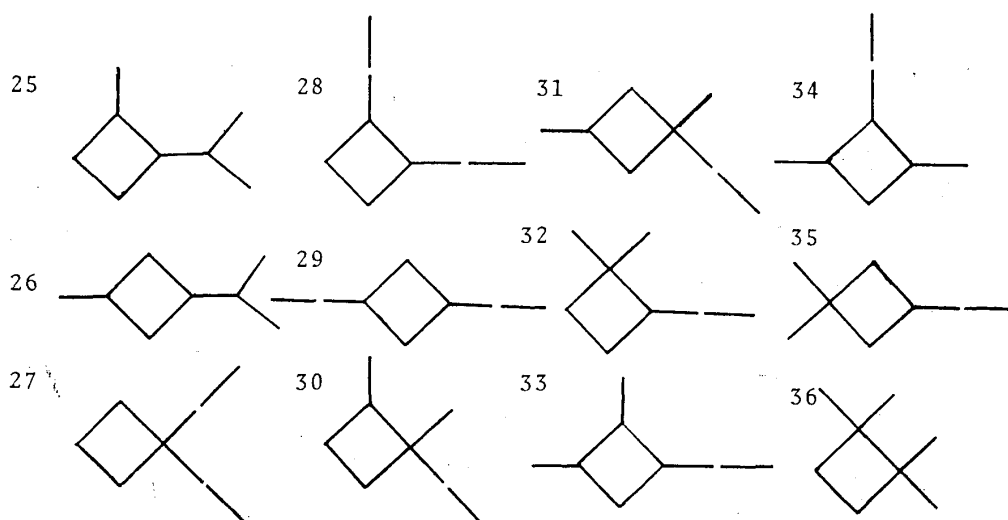


Table I-8

No		$P_G(X)$		$p(G,k)$					Z	
				k=	0	1	2	3		4
37	X^8-8X^6	$+13X^4$	$-5X^2$		1	8	15	5		29
38	X^8-8X^6	$+13X^4$	$-6X^2$		1	8	15	6		30
39	X^8-8X^6	$+12X^4$			1	8	14			23
40	X^8-8X^6	$+14X^4$	$-8X^2$	$+1$	1	8	16	8	1	34
41	$X^8-8X^6+2X^5+19X^4-8X^3-13X^2+6X+1$				1	8	19	13	1	42
42	$X^8-8X^6+2X^5+18X^4-8X^3-9X^2+4X$				1	8	18	9		36
43	$X^8-8X^6+2X^5+18X^4-8X^3-10X^2+4X+1$				1	8	18	10	1	38
44	$X^8-8X^6+2X^5+18X^4-8X^3-11X^2+6X$				1	8	18	11		38
45	$X^8-8X^6+2X^5+16X^4-8X^3-3X^2$				1	8	16	3		28
46	$X^8-8X^6+2X^5+17X^4-8X^3-8X^2+4X$				1	8	17	8		34
47	$X^8-8X^6+2X^5+16X^4-8X^3-7X^2+4X$				1	8	16	7		32
48	$X^8-8X^6+2X^5+18X^4-8X^3-12X^2+6X+1$				1	8	18	12	1	40
49	$X^8-8X^6+2X^5+17X^4-6X^3-9X^2+2X+1$				1	8	17	9	1	36

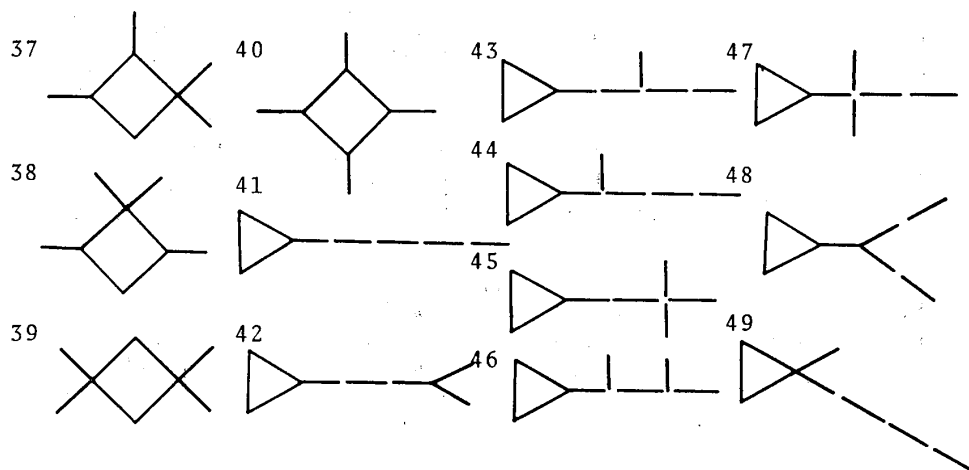


Table I-9

No	$P_G(X)$	$p(G,k)$					Z
		$k=$	0	1	2	3	
50	$X^8-8X^6+2X^5+18X^4-6X^3-11X^2+2X+1$	1	8	18	11	1	39
51	$X^8-8X^6+2X^5+16X^4-6X^3-5X^2$	1	8	16	5		30
52	$X^8-8X^6+2X^5+17X^4-6X^3-7X^2$	1	8	17	7		33
53	$X^8-8X^6+2X^5+16X^4-6X^3-8X^2+2X+1$	1	8	16	8	1	34
54	$X^8-8X^6+2X^5+17X^4-6X^3-9X^2+2X+1$	1	8	17	9	1	36
55	$X^8-8X^6+2X^5+14X^4-6X^3-3X^2$	1	8	14	3		26
56	$X^8-8X^6+2X^5+15X^4-6X^3-3X^2$	1	8	15	3		27
57	$X^8-8X^6+2X^5+17X^4-6X^3-11X^2+4X+1$	1	8	17	11	1	38
58	$X^8-8X^6+2X^5+18X^4-6X^3-12X^2+4X+1$	1	8	18	12	1	40
59	$X^8-8X^6+2X^5+16X^4-6X^3-9X^2+4X$	1	8	16	9		34
60	$X^8-8X^6+2X^5+17X^4-6X^3-9X^2+4X$	1	8	17	9		35
61	$X^8-8X^6+2X^5+16X^4-4X^3-8X^2$	1	8	16	8		33

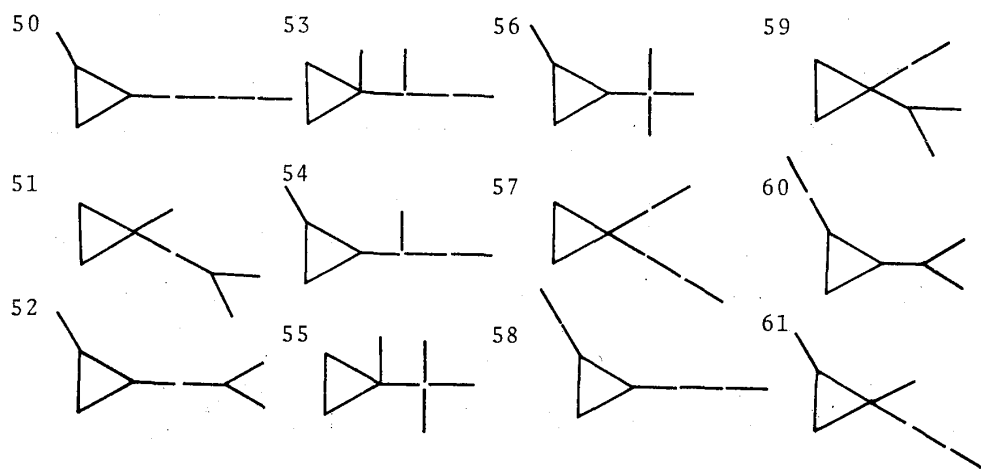


Table I-10

No	$P_G(X)$	$p(g,k)$					Z	
		$k=$	0	1	2	3		4
62	$X^8-8X^6+2X^5+16X^4-4X^3-7X^2$		1	8	16	7		32
63	$X^8-8X^6+2X^5+17X^4-4X^3-10X^2+1$		1	8	17	10	1	37
64	$X^8-8X^6+2X^5+15X^4-4X^3-6X^2$		1	8	15	6		30
65	$X^8-8X^6+2X^5+15X^4-4X^3-4X^2$		1	8	15	4		28
66	$X^8-8X^6+2X^5+16X^4-4X^3-7X^2$		1	8	16	7		32
67	$X^8-8X^6+2X^5+16X^4-4X^3-10X^2+2X+1$		1	8	16	10	1	36
68	$X^8-8X^6+2X^5+16X^4-4X^3-9X^2+2X+1$		1	8	16	9	1	35
69	$X^8-8X^6+2X^5+17X^4-4X^3-11X^2+2X+1$		1	8	17	11	1	38
70	$X^8-8X^6+2X^5+14X^4-2X^3-5X^2$		1	8	14	5		28
71	$X^8-8X^6+2X^5+15X^4-2X^3-8X^2+1$		1	8	15	8	1	33
72	$X^8-8X^6+2X^5+15X^4-2X^3-7X^2$		1	8	15	7		31
73	$X^8-8X^6+2X^5+13X^4-4X^2$		1	8	13	4		26

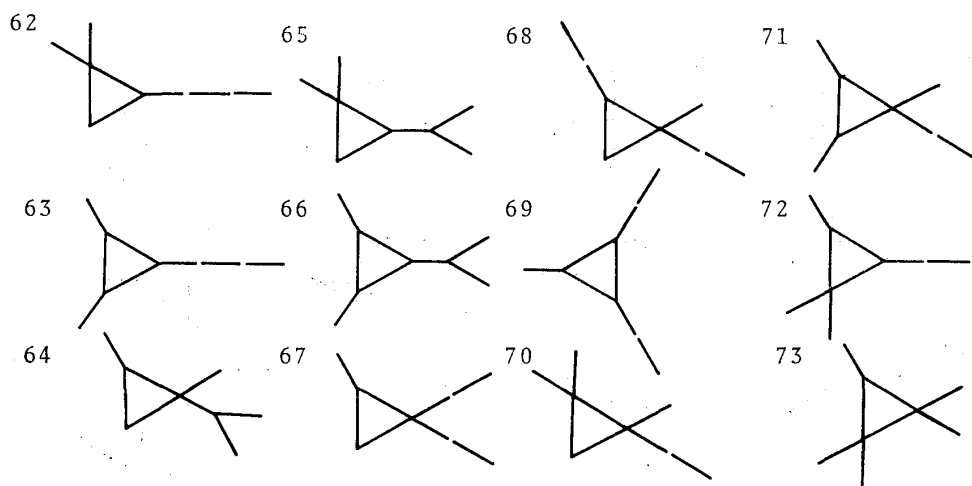


Table II-1

N	No	$P_G(X)$	$P(G,k)$					Z
			k=	0	1	2	3	
4	1	X^4-5X^2+4X		1	5	2		8
5	1	X^5-6X^3		1	6	6		13
	2	$X^5-6X^3+2X^2+4X$		1	6	6		13
	3	$X^5-6X^3+4X^2+2X$		1	6	4		11
	4	$X^5-6X^3+4X^2+3X-2$		1	6	5		12
	5	$X^5-6X^3+4X^2+5X-4$		1	6	5		12
6	1	$X^6-7X^4+9X^2+4X$		1	7	11	2	21
	2	$X^6-7X^4+2X^3+11X^2-2X-4$		1	7	11	2	21
	3	$X^6-7X^4+7X^2-1$		1	7	11	3	22
	4	$X^6-7X^4+3X^2$		1	7	9		17
	5	$X^6-7X^4+4X^2$		1	7	10	2	20
	6	$X^6-7X^4+2X^3+7X^2-1$		1	7	9	1	18

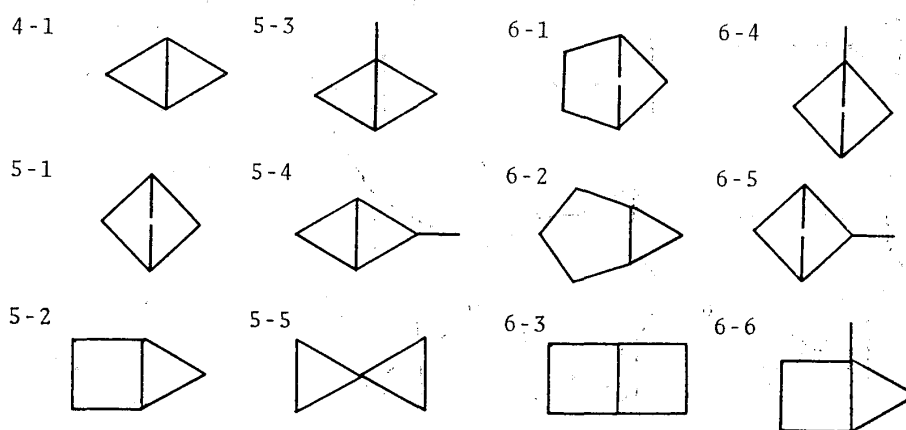


Table II-2

N	No	$P_G(X)$	$P(G, k)$					Z
			k=	0	1	2	3	
6	7	$X^6 - 7X^4 + 2X^3 + 8X^2 - 2X - 1$	1	7	10	1		19
	8	$X^6 - 7X^4 + 2X^3 + 8X^2$	1	7	10	2		20
	9	$X^6 - 7X^4 + 4X^3 + 7X^2 - 4X$	1	7	9	2		19
	10	$X^6 - 7X^4 + 4X^3 + 8X^2 - 6X$	1	7	10	2		20
	11	$X^6 - 7X^4 + 4X^3 + 6X^2 - 2X - 1$	1	7	8	1		17
	12	$X^6 - 7X^4 + 4X^3 + 5X^2$	1	7	7			15
	13	$X^6 - 7X^4 + 4X^3 + 6X^2 - 4X$	1	7	8			16
	14	$X^6 - 7X^4 + 4X^3 + 7X^2 - 4X - 1$	1	7	9	1		18
	15	$X^6 - 7X^4 + 2X^3 + 8X^2 - 4X$	1	7	10	2		20
	16	$X^6 - 7X^4 + 4X^3 + 9X^2 - 6X - 1$	1	7	9	1		18
7	17	$X^6 - 7X^4 + 4X^3 + 11X^2 - 12X + 3$	1	7	11	1		20

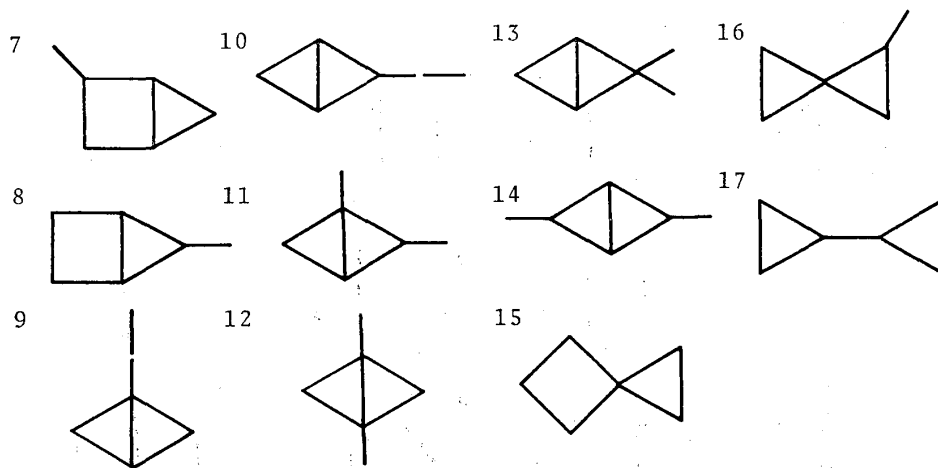


Table II-3

No	$P_G(X)$			$P(G,k)$					Z
				k=	0	1	2	3	
1	X^7-8X^5	$+15X^3$	$-8X$		1	8	17	8	34
2	$X^7-8X^5+2X^4+17X^3$	$-6X^2-10X+4$			1	8	17	8	34
3	X^7-8X^5	$+17X^3$	$+4X^2-10X-4$		1	8	17	8	34
4	X^7-8X^5	$+15X^3$	$+2X^2-5X$		1	8	17	9	35
5	X^7-8X^5	$+13X^3$	$+4X^2-2X$		1	8	15	4	28
6	X^7-8X^5	$+14X^3$	$+4X^2-2X$		1	8	16	6	31
7	X^7-8X^5	$+14X^3$	$+4X^2-5X-2$		1	8	16	7	32
8	$X^7-8X^5+2X^4+15X^3$	$-2X^2-7X$			1	8	15	5	29
9	$X^7-8X^5+2X^4+16X^3$	$-4X^2-8X+2$			1	8	16	6	31
10	$X^7-8X^5+2X^4+16X^3$	$-4X^2-7X$			1	8	16	5	30
11	$X^7-8X^5+2X^4+16X^3$	$-2X^2-9X-2$			1	8	16	7	32
12	X^7-8X^5	$+11X^3$	$-4X$		1	8	15	6	30

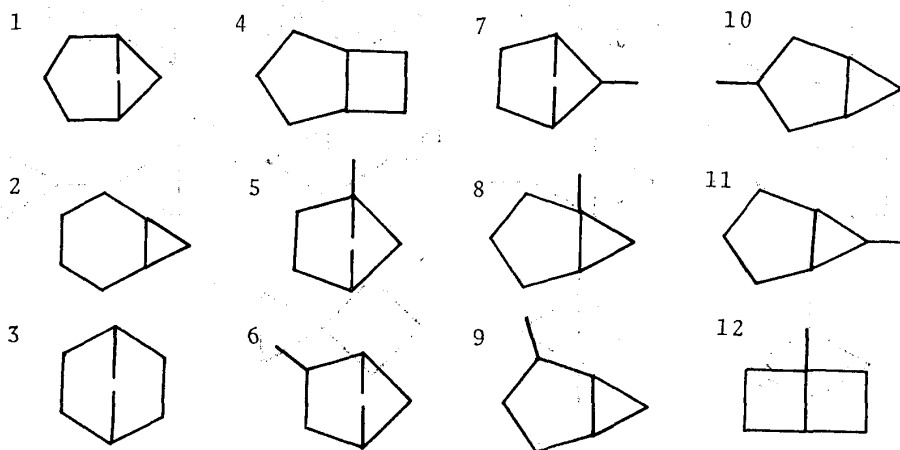


Table II-4

No	$P_G(X)$	$P(G, k)$					Z
		$k=$	0	1	2	3	
13	$X^7-8X^5+12X^3-3X$		1	8	16	7	32
14	$X^7-8X^5+9X^3$		1	8	15	6	30
15	$X^7-8X^5+10X^3$		1	8	16	8	33
16	$X^7-8X^5+8X^3-2X$		1	8	14	4	27
17	$X^7-8X^5+7X^3$		1	8	13		22
18	$X^7-8X^5+8X^3$		1	8	14	4	27
19	$X^7-8X^5+9X^3-2X$		1	8	15	6	30
20	$X^7-8X^5+2X^4+13X^3-2X^2-5X$		1	8	15	7	31
21	$X^7-8X^5+2X^4+14X^3-4X^2-5X$		1	8	16	7	32
22	$X^7-8X^5+2X^4+14X^3-2X^2-4X$		1	8	16	8	33
23	$X^7-8X^5+2X^4+12X^3-2X^2-4X$		1	8	14	4	27
24	$X^7-8X^5+2X^4+12X^3-2X^2-3X$		1	8	14	3	26

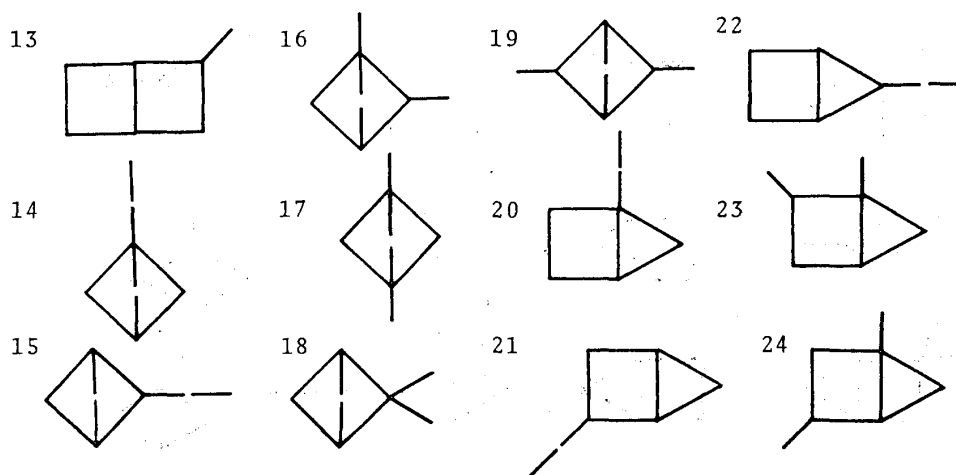


Table II-5

No	$P_G(X)$	$P(G,k)$					Z
		k=	0	1	2	3	
25	$X^7-8X^5+2X^4+11X^3-3X$	1	8	13	3		25
26	$X^7-8X^5+2X^4+12X^3-3X$	1	8	14	5		28
27	$X^7-8X^5+2X^4+12X^3-4X^2-2X$	1	8	14	2		25
28	$X^7-8X^5+2X^4+13X^3-4X^2-5X+2$	1	8	15	5		29
29	$X^7-8X^5+2X^4+13X^3-2X^2-3X$	1	8	15	5		29
30	$X^7-8X^5+2X^4+12X^3$	1	8	14	4		27
31	$X^7-8X^5+4X^4+13X^3-8X^2-2X$	1	8	15	6		30
32	$X^7-8X^5+4X^4+12X^3-8X^2$	1	8	14	4		27
33	$X^7-8X^5+4X^4+14X^3-10X^2-3X+2$	1	8	16	7		32
34	$X^7-8X^5+4X^4+13X^3-10X^2$	1	8	15	4		28
35	$X^7-8X^5+4X^4+12X^3-6X^2-4X+2$	1	8	14	6		29
36	$X^7-8X^5+4X^4+11X^3-4X^2-2X$	1	8	13	4		26

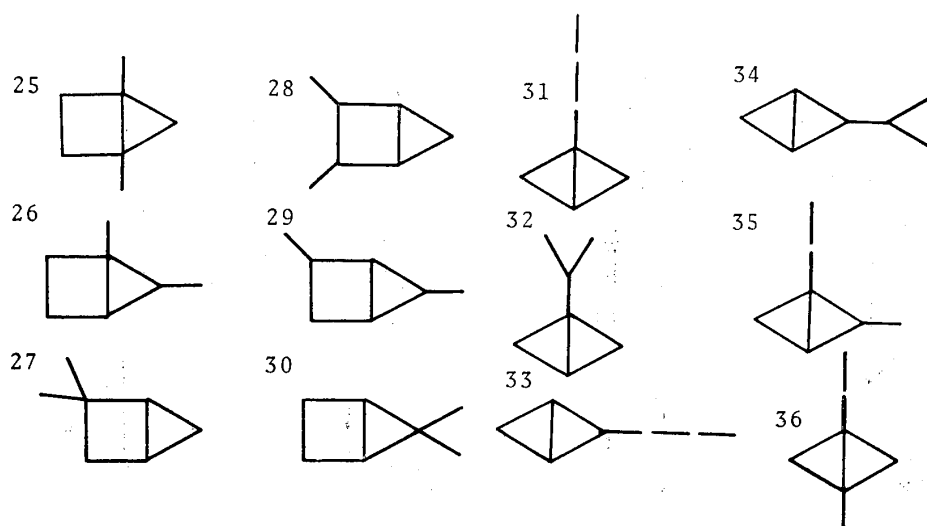


Table II-6

No	$P_G(X)$	$P(G, k)$					Z
		k=	0	1	2	3	
37	$X^7 - 8X^5 + 4X^4 + 12X^3 - 6X^2 - 3X$	1	8	14	5		28
38	$X^7 - 8X^5 + 4X^4 + 12X^3 - 8X^2 - 3X + 2$	1	8	14	5		28
39	$X^7 - 8X^5 + 4X^4 + 13X^3 - 8X^2 - 4X + 2$	1	8	15	6		30
40	$X^7 - 8X^5 + 4X^4 + 10X^3 - 4X^2 - 2X$	1	8	12	2		23
41	$X^7 - 8X^5 + 4X^4 + 10X^3 - 2X^2 - 3X$	1	8	12	3		24
42	$X^7 - 8X^5 + 4X^4 + 11X^3 - 4X^2 - 4X$	1	8	13	4		26
43	$X^7 - 8X^5 + 4X^4 + 11X^3 - 6X^2 - 2X$	1	8	13	2		24
44	$X^7 - 8X^5 + 2X^4 + 16X^3 - 4X^2 - 7X$	1	8	16	7		32
45	$X^7 - 8X^5 + 12X^3$	1	8	16	8		33
46	$X^7 - 8X^5 + 2X^4 + 13X^3 - 4X^2 - 2X$	1	8	15	6		30
47	$X^7 - 8X^5 + 2X^4 + 13X^3 - 6X^2 - 4X + 2$	1	8	15	6		30
48	$X^7 - 8X^5 + 2X^4 + 13X^3 - 6X^2 - 2X$	1	8	15	4		28

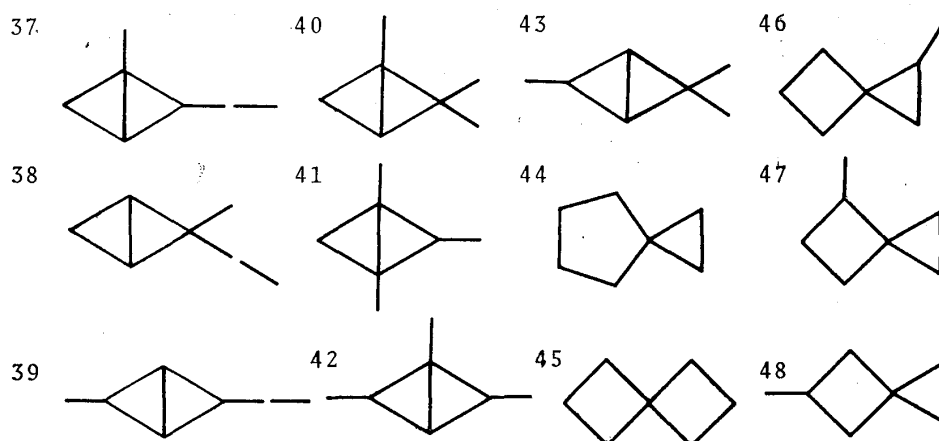


Table II-7

No	$P_G(X)$	$P(G,k)$					Z	
		k=	0	1	2	3		4
49	$X^7-8X^5+4X^4+15X^3-10X^2-6X+4$		1	8	15	6		30
50	$X^7-8X^5+4X^4+13X^3-8X^2-2X$		1	8	13	2		24
51	$X^7-8X^5+4X^4+14X^3-8X^2-5X+2$		1	8	14	5		28
52	$X^7-8X^5+4X^4+14X^3-8X^2-4X$		1	8	14	4		27
53	$X^7-8X^5+2X^4+15X^3-8X^2-2X$		1	8	17	8		34
54	$X^7-8X^5+4X^4+15X^3-14X^2+2$		1	8	15	4		28
55	$X^7-8X^5+4X^4+16X^3-14X^2-X+2$		1	8	16	5		30
56	$X^7-8X^5+4X^4+17X^3-16X^2-2X+4$		1	8	17	6		32

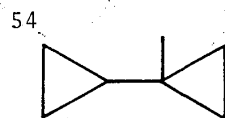
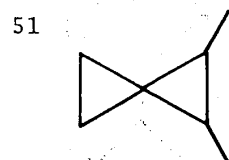
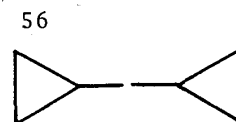
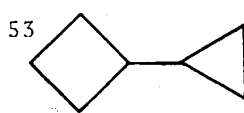
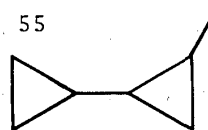
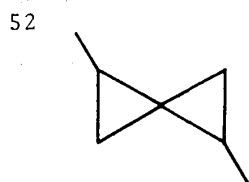
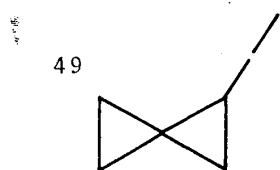


Table II-8

No	$P_G(X)$			$P(G,k)$					Z
				k=	0	1	2	3	4
1	$X^8 - 9X^6$	$+22X^4$	$-13X^2 + 4X$	1	9	24	19	2	55
2	$X^8 - 9X^6 + 2X^5 + 24X^4$	$-8X^3 - 19X^2 + 8X$		1	9	24	19	2	55
3	$X^8 - 9X^6$	$+24X^4$	$-25X^2 + 9$	1	9	24	19	3	56
4	$X^8 - 9X^6$	$+24X^4 + 2X^3 - 21X^2 - 2X + 4$		1	9	24	19	2	55
5	$X^8 - 9X^6$	$+22X^4$	$-16X^2 + 1$	1	9	24	20	3	57
6	$X^8 - 9X^6$	$+24X^4 + 4X^3 - 20X^2 - 8X$		1	9	24	20	2	56
7	$X^8 - 9X^6$	$+20X^4$	$-13X^2$	1	9	22	13		45
8	$X^8 - 9X^6$	$+21X^4$	$-14X^2$	1	9	23	16	2	51
9	$X^8 - 9X^6$	$+21X^4$	$-17X^2 + 4$	1	9	23	17	2	52
10	$X^8 - 9X^6$	$+21X^4$	$-13X^2$	1	9	23	15		48
11	$X^8 - 9X^6 + 2X^5 + 22X^4$	$-6X^3 - 16X^2 + 4X + 1$		1	9	22	14	1	47
12	$X^8 - 9X^6 + 2X^5 + 23X^4$	$-8X^3 - 18X^2 + 8X + 1$		1	9	23	16	1	50

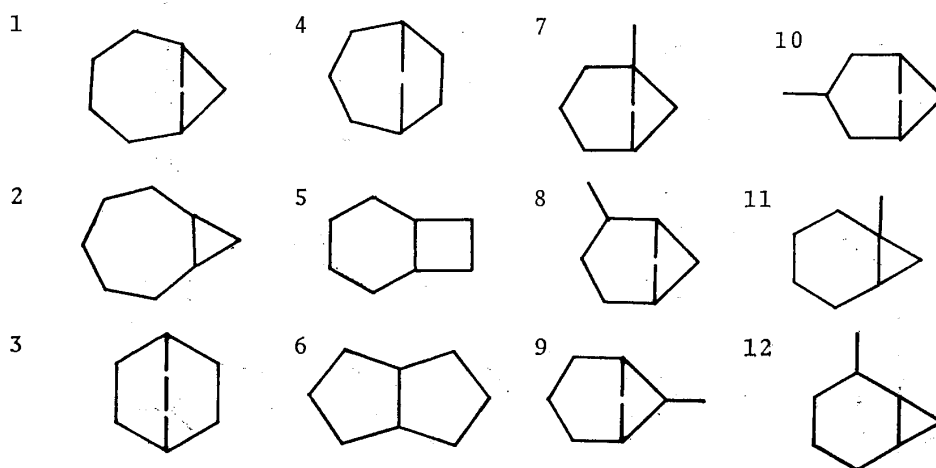


Table II-9

No	$P_G(X)$	$P(G, k)$					Z
		k=	0	1	2	3	4
13	$X^8 - 9X^6 + 2X^5 + 23X^4 - 8X^3 - 17X^2 + 6X + 1$	1	9	23	15	1	49
14	$X^8 - 9X^6 + 2X^5 + 23X^4 - 6X^3 - 19X^2 + 4X + 4$	1	9	23	17	2	52
15	$X^8 - 9X^6 + 22X^4 + 4X^3 - 15X^2 - 4X + 1$	1	9	22	13	1	46
16	$X^8 - 9X^6 + 23X^4 + 4X^3 - 18X^2 - 6X + 1$	1	9	23	16	1	50
17	$X^8 - 9X^6 + 23X^4 + 4X^3 - 19X^2 - 4X + 4$	1	9	23	17	2	52
18	$X^8 - 9X^6 + 20X^4 + 2X^3 - 11X^2 + 1$	1	9	22	15	1	48
19	$X^8 - 9X^6 + 21X^4 + 2X^3 - 11X^2$	1	9	23	17	2	52
20	$X^8 - 9X^6 + 21X^4 + 2X^3 - 10X^2 + 1$	1	9	23	16	1	50
21	$X^8 - 9X^6 + 21X^4 + 2X^3 - 13X^2 - 2X + 1$	1	9	23	17	1	51
22	$X^8 - 9X^6 + 20X^4 + 4X^3 - 11X^2 - 4X$	1	9	22	15	2	49
23	$X^8 - 9X^6 + 21X^4 + 4X^3 - 11X^2 - 4X$	1	9	23	17	2	52
24	$X^8 - 9X^6 + 21X^4 + 4X^3 - 14X^2 - 6X$	1	9	23	18	2	53

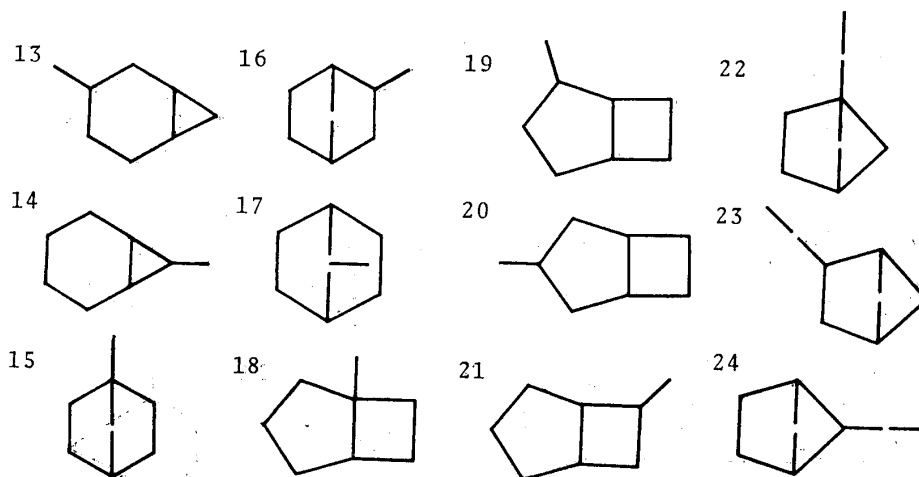


Table II-10

No	$P_G(X)$	$P(G, k)$					Z	
		k=	0	1	2	3		4
25	$X^8 - 9X^6 + 19X^4 + 4X^3 - 7X^2$		1	9	21	11		42
26	$X^8 - 9X^6 + 19X^4 + 4X^3 - 6X^2$		1	9	21	10		41
26	$X^8 - 9X^6 + 18X^4 + 4X^3 - 5X^2$		1	9	20	7		37
28	$X^8 - 9X^6 + 19X^4 + 4X^3 - 10X^2 - 2X + 1$		1	9	21	12	1	44
29	$X^8 - 9X^6 + 19X^4 + 4X^3 - 4X^2$		1	9	21	10		41
30	$X^8 - 9X^6 + 20X^4 + 4X^3 - 8X^2$		1	9	22	14	2	48
31	$X^8 - 9X^6 + 20X^4 + 4X^3 - 10X^2 - 2X + 1$		1	9	22	14	1	47
32	$X^8 - 9X^6 + 19X^4 + 4X^3 - 10X^2 - 4X$		1	9	21	12		43
33	$X^8 - 9X^6 + 20X^4 + 4X^3 - 13X^2 - 4X + 1$		1	9	22	15	1	48
34	$X^8 - 9X^6 + 2X^5 + 22X^4 - 4X^3 - 18X^2 + 2X + 4$		1	9	22	16	2	50
35	$X^8 - 9X^6 + 2X^5 + 23X^4 - 6X^3 - 19X^2 + 4X + 4$		1	9	23	17	2	52
36	$X^8 - 9X^6 + 2X^5 + 23X^4 - 6X^3 - 18X^2 + 2X + 4$		1	9	23	16	2	51

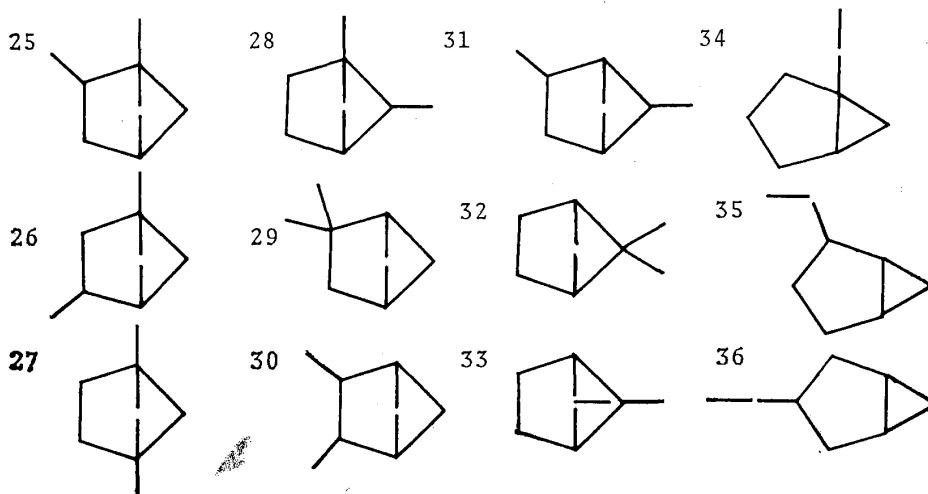


Table II-11

No	$P_G(X)$	$P(G,k)$					Z
		$k=$	0	1	2	3	4
37	$X^8 - 9X^6 + 2X^5 + 23X^4 - 4X^3 - 20X^2 + 4$	1	9	23	18	2	53
38	$X^8 - 9X^6 + 2X^5 + 21X^4 - 4X^3 - 14X^2 + 2X + 1$	1	9	21	12	1	44
39	$X^8 - 9X^6 + 2X^5 + 21X^4 - 4X^3 - 12X^2$	1	9	21	10		41
40	$X^8 - 9X^6 + 2X^5 + 21X^4 - 4X^3 - 13X^2 + 2X + 1$	1	9	21	11	1	43
41	$X^8 - 9X^6 + 2X^5 + 20X^4 - 2X^3 - 12X^2$	1	9	20	10		40
42	$X^8 - 9X^6 + 2X^5 + 21X^4 - 2X^3 - 15X^2 - 2X + 1$	1	9	21	13	1	45
43	$X^8 - 9X^6 + 2X^5 + 21X^4 - 6X^3 - 12X^2 + 4X$	1	9	21	10		41
44	$X^8 - 9X^6 + 2X^5 + 22X^4 - 6X^3 - 15X^2 + 4X + 1$	1	9	22	13	1	46
45	$X^8 - 9X^6 + 2X^5 + 22X^4 - 6X^3 - 15X^2 + 6X$	1	9	22	13		45
46	$X^8 - 9X^6 + 2X^5 + 22X^4 - 4X^3 - 16X^2 + 1$	1	9	22	14	1	47
47	$X^8 - 9X^6 + 2X^5 + 21X^4 - 6X^3 - 10X^2$	1	9	21	8		39
48	$X^8 - 9X^6 + 2X^5 + 22X^4 - 4X^3 - 15X^2 - 2X + 1$	1	9	22	13	1	46

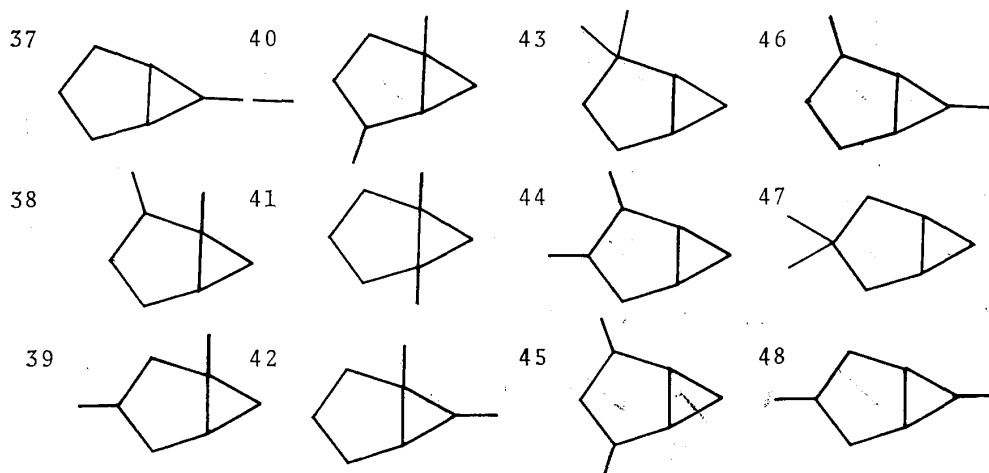


Table II-12

No	$P_G(X)$			$P(G, k)$					Z	
				k=	0	1	2	3		4
49	$X^8 - 9X^6 + 2X^5 + 21X^4$	$-2X^3 - 14X^2$	$-4X$		1	9	21	12		43
50	$X^8 - 9X^6$	$+18X^4$	$-11X^2$	$+1$	1	9	22	17	3	52
51	$X^8 - 9X^6$	$+19X^4$	$-10X^2$	$+1$	1	9	23	18	3	54
52	$X^8 - 9X^6$	$+17X^4$	$-9X^2$	$+1$	1	9	21	13	1	45
53	$X^8 - 9X^6$	$+17X^4$	$-8X^2$		1	9	21	12		43
54	$X^8 - 9X^6$	$+16X^4$	$-9X^2$	$+1$	1	9	20	11	1	42
55	$X^8 - 9X^6$	$+17X^4$	$-5X^2$		1	9	21	11		42
56	$X^8 - 9X^6$	$+18X^4$	$-9X^2$		1	9	22	15	2	49
57	$X^8 - 9X^6$	$+18X^4$	$-8X^2$	$+1$	1	9	22	14	1	47
58	$X^8 - 9X^6$	$+18X^4$	$-8X^2$		1	9	22	14		46
59	$X^8 - 9X^6$	$+16X^4$	$-3X^2$		1	9	22	15		47
60	$X^8 - 9X^6$	$+15X^4$			1	9	21	12		43

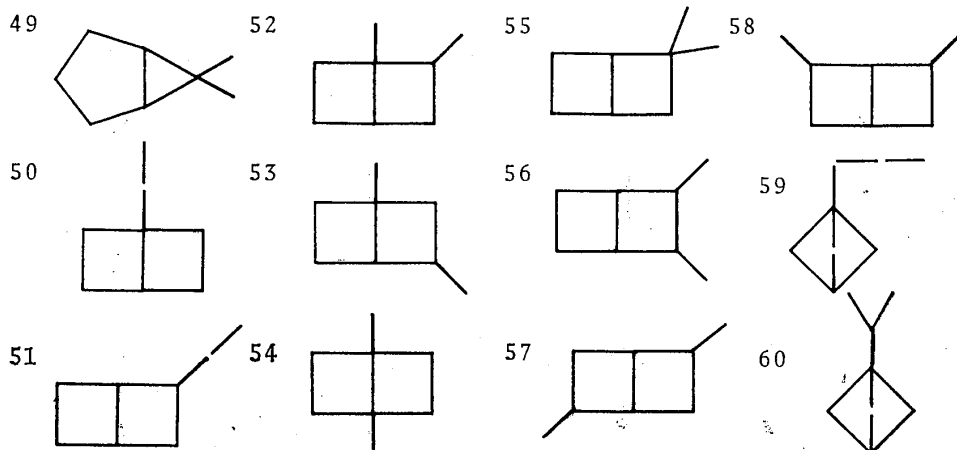


Table II-13

No		$P_G(X)$		$P(G,k)$						Z
				k=	0	1	2	3	4	
61	X^8-9X^6	$+17X^4$	$-4X^2$		1	9	23	18	2	53
62	X^8-9X^6	$+16X^4$			1	9	22	14		46
63	X^8-9X^6	$+15X^4$	$-6X^2$		1	9	21	14	2	47
64	X^8-9X^6	$+14X^4$	$-3X^2$		1	9	20	9		39
65	X^8-9X^6	$+15X^4$	$-5X^2$		1	9	21	13		44
66	X^8-9X^6	$+15X^4$	$-4X^2$		1	9	21	14	2	47
67	X^8-9X^6	$+16X^4$	$-6X^2$		1	9	22	16	2	50
68	X^8-9X^6	$+13X^4$	$-4X^2$		1	9	19	8		37
69	X^8-9X^6	$+13X^4$	$-5X^2$		1	9	19	7		36
70	X^8-9X^6	$+14X^4$	$-7X^2$	+1	1	9	20	11	1	42
71	X^8-9X^6	$+14X^4$	$-4X^2$		1	9	20	10		40
72	X^8-9X^6	$+15X^4$	$-7X^2$		1	9	21	13		44

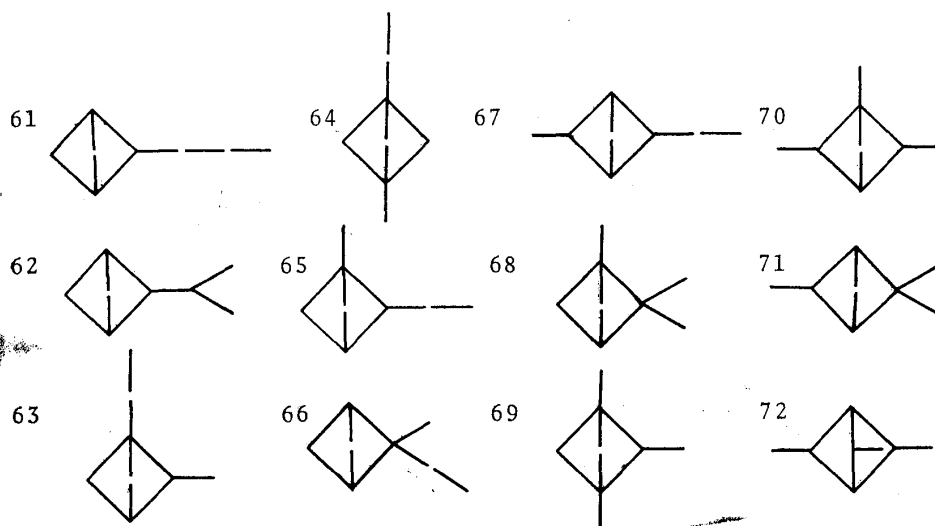


Table II-14

No	$P_G(X)$	$P(G, k)$					Z
		k=	0	1	2	3	
73	$X^8 - 9X^6 + 2X^5 + 20X^4 - 4X^3 - 12X^2 + 1$	1	9	22	16	1	49
74	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 9X^2$	1	9	21	13		44
75	$X^8 - 9X^6 + 2X^5 + 21X^4 - 6X^3 - 13X^2 + 2X + 1$	1	9	23	17	1	51
76	$X^8 - 9X^6 + 2X^5 + 20X^4 - 6X^3 - 9X^2$	1	9	22	13		45
77	$X^8 - 9X^6 + 2X^5 + 21X^4 - 4X^3 - 12X^2$	1	9	23	18	2	53
78	$X^8 - 9X^6 + 2X^5 + 20X^4 - 4X^3 - 8X^2$	1	9	22	14		46
79	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 12X^2 + 2X + 1$	1	9	21	14	1	46
80	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 11X^2 + 2X + 1$	1	9	21	13	1	45
81	$X^8 - 9X^6 + 2X^5 + 18X^4 - 2X^3 - 10X^2 + 1$	1	9	20	12	1	43
82	$X^8 - 9X^6 + 2X^5 + 19X^4 - 2X^3 - 11X^2$	1	9	21	15	2	48
83	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 11X^2 + 1$	1	9	21	13	1	45
84	$X^8 - 9X^6 + 2X^5 + 19X^4 - 6X^3 - 10X^2 + 2X + 1$	1	9	21	12	1	44

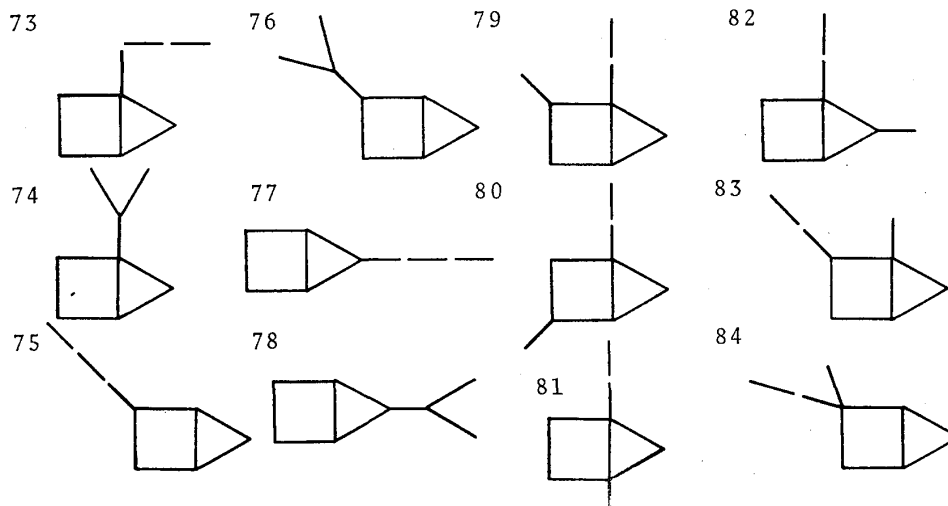


Table II-15

No	$P_G(X)$	$P(G, k)$					Z
		$k=$	0	1	2	3	4
85	$X^8 - 9X^6 + 2X^5 + 20X^4 - 6X^3 - 13X^2 + 4X + 1$	1	9	22	15	1	48
86	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 10X^2 + 1$	1	9	21	12	1	44
87	$X^8 - 9X^6 + 2X^5 + 20X^4 - 4X^3 - 11X^2$	1	9	22	15	2	49
88	$X^8 - 9X^6 + 2X^5 + 19X^4 - 2X^3 - 10X^2 + 1$	1	9	21	14	1	46
89	$X^8 - 9X^6 + 2X^5 + 20X^4 - 4X^3 - 11X^2 + 2X + 1$	1	9	22	15	1	48
90	$X^8 - 9X^6 + 2X^5 + 19X^4 - 2X^3 - 8X^2$	1	9	21	14	2	47
91	$X^8 - 9X^6 + 2X^5 + 17X^4 - 4X^3 - 7X^2$	1	9	19	7		36
92	$X^8 - 9X^6 + 2X^5 + 18X^4 - 4X^3 - 10X^2 + 2X + 1$	1	9	20	10	1	41
93	$X^8 - 9X^6 + 2X^5 + 17X^4 - 2X^3 - 8X^2$	1	9	19	8		37
94	$X^8 - 9X^6 + 2X^5 + 18X^4 - 2X^3 - 9X^2 + 1$	1	9	20	11	1	42
95	$X^8 - 9X^6 + 2X^5 + 17X^4 - 4X^3 - 5X^2$	1	9	19	5		34
96	$X^8 - 9X^6 + 2X^5 + 18X^4 - 2X^3 - 8X^2$	1	9	20	10		40

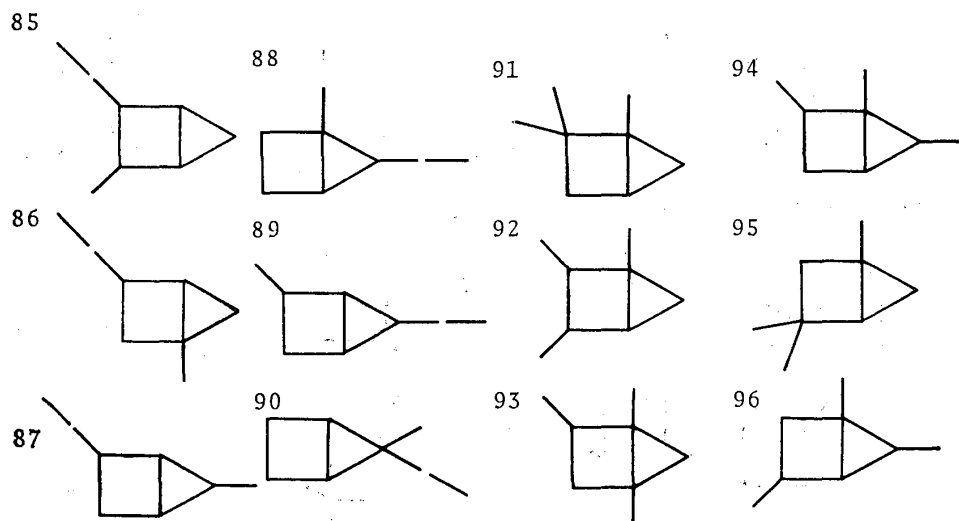


Table II-16

No	$P_G(X)$	$P(G, k)$					Z
		k=	0	1	2	3	4
97	$X^8 - 9X^6 + 2X^5 + 17X^4 - 8X^2 + 1$	1	9	19	10	1	40
98	$X^8 - 9X^6 + 2X^5 + 17X^4 - 5X^2$	1	9	19	9		38
99	$X^8 - 9X^6 + 2X^5 + 18X^4 - 6X^3 - 9X^2 + 4X$	1	9	20	9		39
100	$X^8 - 9X^6 + 2X^5 + 18X^4 - 4X^3 - 6X^2$	1	9	20	8		38
101	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 10X^2 + 2X + 1$	1	9	21	12	1	44
102	$X^8 - 9X^6 + 2X^5 + 18X^4 - 2X^3 - 5X^2$	1	9	20	9		39
103	$X^8 - 9X^6 + 4X^5 + 20X^4 - 12X^3 - 9X^2 + 4X$	1	9	22	15	2	49
104	$X^8 - 9X^6 + 4X^5 + 19X^4 - 12X^3 - 4X^2$	1	9	21	10		41
105	$X^8 - 9X^6 + 4X^5 + 19X^4 - 12X^3 - 7X^2 + 4X$	1	9	21	13	2	46
106	$X^8 - 9X^6 + 4X^5 + 17X^4 - 12X^3$	1	9	19	6		35
107	$X^8 - 9X^6 + 4X^5 + 21X^4 - 14X^3 - 11X^2 + 8X$	1	9	23	17	2	52
108	$X^8 - 9X^6 + 4X^5 + 20X^4 - 14X^3 - 6X^2 + 4X$	1	9	22	12		44

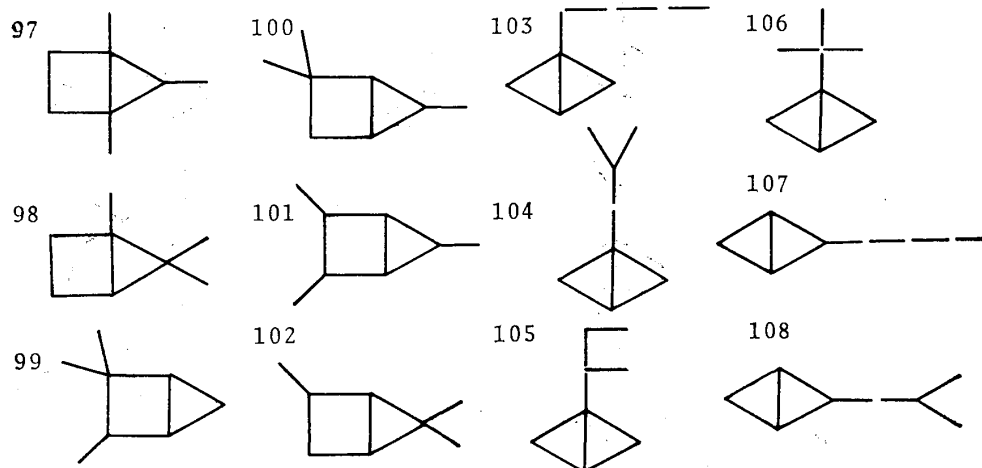


Table II-17

No	$P_G(X)$	$P(G,k)$					Z
		k=	0	1	2	3	4
109	$X^8 - 9X^6 + 4X^5 + 20X^4 - 14X^3 - 8X^2 + 6X$	1	9	22	14	2	48
110	$X^8 - 9X^6 + 4X^5 + 18X^4 - 14X^3$	1	9	20	6		36
111	$X^8 - 9X^6 + 4X^5 + 19X^4 - 10X^3 - 10X^2 + 4X + 1$	1	9	21	14	1	46
112	$X^8 - 9X^6 + 4X^5 + 18X^4 - 8X^3 - 7X^2$	1	9	20	11		41
113	$X^8 - 9X^6 + 4X^5 + 18X^4 - 10X^3 - 7X^2 + 4X$	1	9	20	11		41
114	$X^8 - 9X^6 + 4X^5 + 17X^4 - 8X^3 - 4X^2$	1	9	19	8		37
115	$X^8 - 9X^6 + 4X^5 + 19X^4 - 10X^3 - 9X^2 + 2X + 1$	1	9	21	13	1	45
116	$X^8 - 9X^6 + 4X^5 + 19X^4 - 12X^3 - 9X^2 + 6X$	1	9	21	13		44
117	$X^8 - 9X^6 + 4X^5 + 20X^4 - 12X^3 - 11X^2 + 6X + 1$	1	9	22	15	1	48
118	$X^8 - 9X^6 + 4X^5 + 18X^4 - 10X^3 - 5X^2$	1	9	20	9		39
119	$X^8 - 9X^6 + 4X^5 + 18X^4 - 12X^3 - 6X^2 + 4X$	1	9	20	10		40
120	$X^8 - 9X^6 + 4X^5 + 19X^4 - 12X^3 - 7X^2 + 4X$	1	9	21	11		42

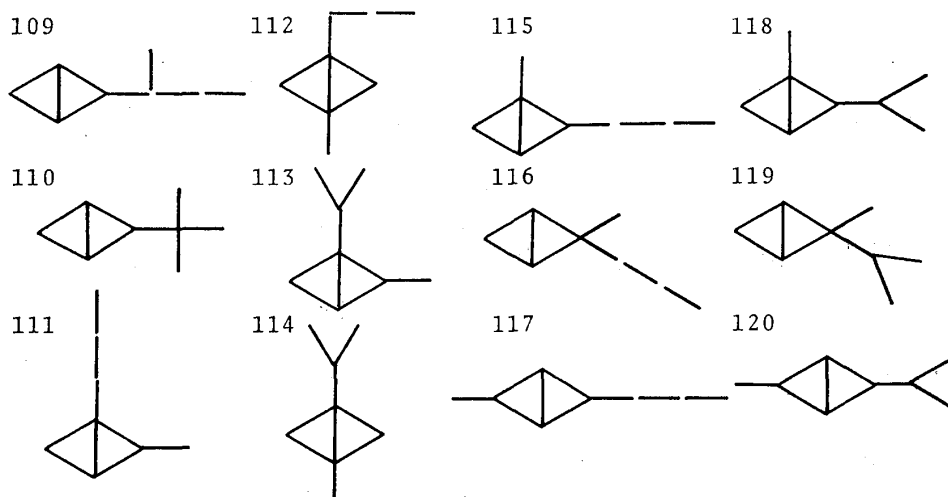


Table II-18

No	$P_G(X)$	$P(G, k)$					Z
		k=	0	1	2	3	
121	$X^8 - 9X^6 + 4X^5 + 19X^4 - 10X^3 - 11X^2 + 6X$	1	9	21	15	2	48
122	$X^8 - 9X^6 + 4X^5 + 18X^4 - 8X^3 - 9X^2 + 4X$	1	9	20	13	2	45
123	$X^8 - 9X^6 + 4X^5 + 19X^4 - 12X^3 - 11X^2 + 8X$	1	9	21	15	2	48
124	$X^8 - 9X^6 + 4X^5 + 20X^4 - 12X^3 - 12X^2 + 8X$	1	9	22	16	2	50
125	$X^8 - 9X^6 + 4X^5 + 17X^4 - 8X^3 - 8X^2 + 4X$	1	9	19	10		39
126	$X^8 - 9X^6 + 4X^5 + 17X^4 - 6X^3 - 9X^2 + 2X + 1$	1	9	19	11	1	41
127	$X^8 - 9X^6 + 4X^5 + 18X^4 - 8X^3 - 11X^2 + 4X + 1$	1	9	20	13	1	44
128	$X^8 - 9X^6 + 4X^5 + 17X^4 - 8X^3 - 8X^2 + 2X + 1$	1	9	19	10	1	40
129	$X^8 - 9X^6 + 4X^5 + 17X^4 - 6X^3 - 8X^2$	1	9	19	10		39
130	$X^8 - 9X^6 + 4X^5 + 18X^4 - 8X^3 - 10X^2 + 2X + 1$	1	9	20	12	1	43
131	$X^8 - 9X^6 + 4X^5 + 18X^4 - 10X^3 - 9X^2 + 4X + 1$	1	9	20	11	1	42
132	$X^8 - 9X^6 + 4X^5 + 18X^4 - 10X^3 - 8X^2 + 4X$	1	9	20	10		40

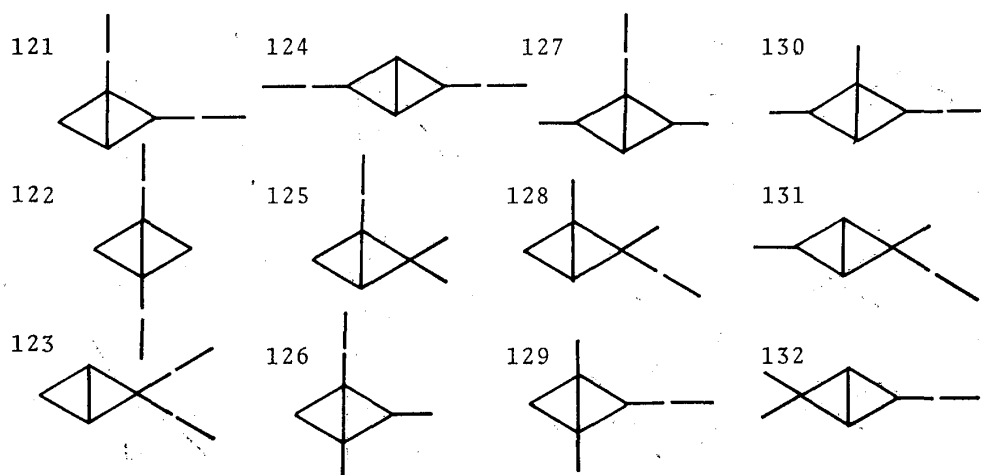
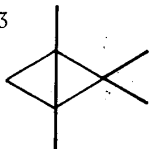


Table II-19

No	$P_G(X)$	$P(G, k)$					Z	
		k=	0	1	2	3		4
133	$X^8 - 9X^6 + 4X^5 + 15X^4 - 4X^3 - 6X^2$		1	9	17	6		33
134	$X^8 - 9X^6 + 4X^5 + 16X^4 - 6X^3 - 7X^2$		1	9	18	7		35
135	$X^8 - 9X^6 + 4X^5 + 16X^4 - 4X^3 - 9X^2 + 1$	+1	1	9	18	9	1	38
136	$X^8 - 9X^6 + 4X^5 + 16X^4 - 8X^3 - 4X^2$		1	9	18	4		32
137	$X^8 - 9X^6 + 2X^5 + 23X^4 - 8X^3 - 19X^2 + 6X + 4$		1	9	23	17	2	52
138	$X^8 - 9X^6 + 21X^4 + 2X^3 - 12X^2 - 4X$		1	9	23	18	2	53
139	$X^8 - 9X^6 + 2X^5 + 22X^4 - 4X^3 - 15X^2 - 2X + 1$		1	9	22	15	1	48
140	$X^8 - 9X^6 + 2X^5 + 22X^4 - 6X^3 - 13X^2 + 2X + 1$		1	9	22	13	1	46
141	$X^8 - 9X^6 + 2X^5 + 22X^4 - 6X^3 - 15X^2 + 4X + 1$		1	9	22	15	1	48
142	$X^8 - 9X^6 + 18X^4 - 6X^2$		1	9	22	16	2	50
143	$X^8 - 9X^6 + 18X^4 - 4X^2$		1	9	22	14		46
144	$X^8 - 9X^6 + 2X^5 + 20X^4 - 6X^3 - 10X^2 + 4X$		1	9	22	16	2	50

133



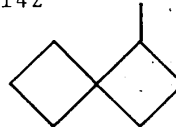
136



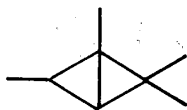
139



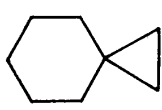
142



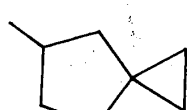
134



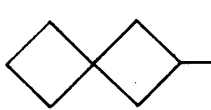
137



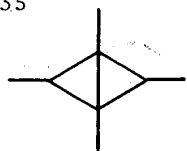
140



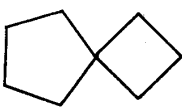
143



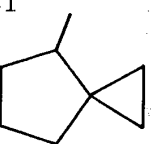
135



138



141



144

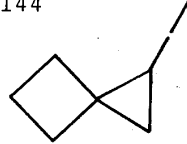


Table II-20

No	$P_G(X)$	$P(G, k)$					Z
		k=	0	1	2	3	4
145	$X^8 - 9X^6 + 2X^5 + 20X^4 - 8X^3 - 12X^2 + 6X$	1	9	22	16	2	50
146	$X^8 - 9X^6 + 2X^5 + 20X^4 - 8X^3 - 10X^2 + 4X$	1	9	22	14	2	48
147	$X^8 - 9X^6 + 2X^5 + 18X^4 - 4X^3 - 4X^2$	1	9	20	10		40
148	$X^8 - 9X^6 + 2X^5 + 19X^4 - 4X^3 - 8X^2$	1	9	21	14	2	47
149	$X^8 - 9X^6 + 2X^5 + 19X^4 - 6X^3 - 9X^2 + 2X + 1$	1	9	21	13	1	45
150	$X^8 - 9X^6 + 2X^5 + 19X^4 - 6X^3 - 7X^2$	1	9	21	11		42
151	$X^8 - 9X^6 + 2X^5 + 18X^4 - 8X^3 - 8X^2 + 4X$	1	9	20	10		40
152	$X^8 - 9X^6 + 2X^5 + 19X^4 - 8X^3 - 10X^2 + 4X + 1$	1	9	21	12	1	44
153	$X^8 - 9X^6 + 2X^5 + 19X^4 - 8X^3 - 11X^2 + 6X$	1	9	21	13		44
154	$X^8 - 9X^6 + 2X^5 + 18X^4 - 8X^3 - 4X^2$	1	9	20	6		36
155	$X^8 - 9X^6 + 4X^5 + 22X^4 - 14X^3 - 15X^2 + 10X + 1$	1	9	22	15	1	48
156	$X^8 - 9X^6 + 4X^5 + 21X^4 - 14X^3 - 11X^2 + 8X$	1	9	21	11		42

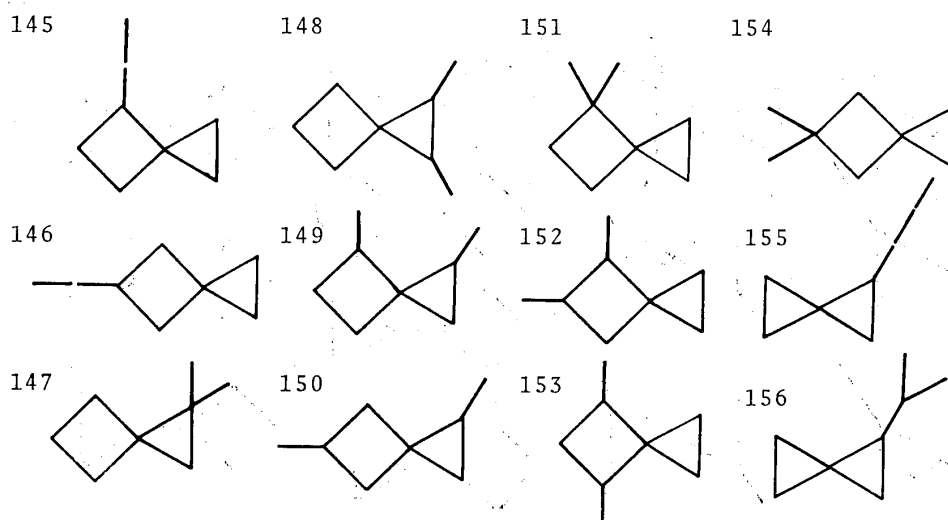


Table II-21

No	$P_G(X)$	$P(G,k)$					Z
		$k=$	0	1	2	3	
157	$X^8-9X^6+4X^5+20X^4-12X^3-11X^2+6X+1$	1	9	20	11	1	42
158	$X^8-9X^6+4X^5+21X^4-12X^3-14X^2+8X+1$	1	9	21	14	1	46
159	$X^8-9X^6+4X^5+21X^4-12X^3-13X^2+6X+1$	1	9	21	13	1	45
160	$X^8-9X^6+4X^5+19X^4-10X^3-9X^2+4X$	1	9	19	9		38
161	$X^8-9X^6+4X^5+19X^4-10X^3-7X^2$	1	9	19	7		36
162	$X^8-9X^6+4X^5+20X^4-10X^3-11X^2+2X+1$	1	9	20	11	1	42
163	$X^8-9X^6+2X^5+24X^4-8X^3-19X^2+4X+5$	1	9	24	19	1	54
164	$X^8-9X^6+20X^4-4X^2$	1	9	24	20	4	58
165	$X^8-9X^6+2X^5+20X^4-10X^3-8X^2+4X$	1	9	22	14		46
166	$X^8-9X^6+2X^5+21X^4-10X^3-10X^2+4X+1$	1	9	23	16	1	50
167	$X^8-9X^6+2X^5+21X^4-10X^3-9X^2+4X$	1	9	23	15		48
168	$X^8-9X^6+2X^5+20X^4-8X^3-6X^2$	1	9	22	14	2	48
169	$X^8-9X^6+2X^5+21X^4-8X^3-8X^2$	1	9	23	16	2	51

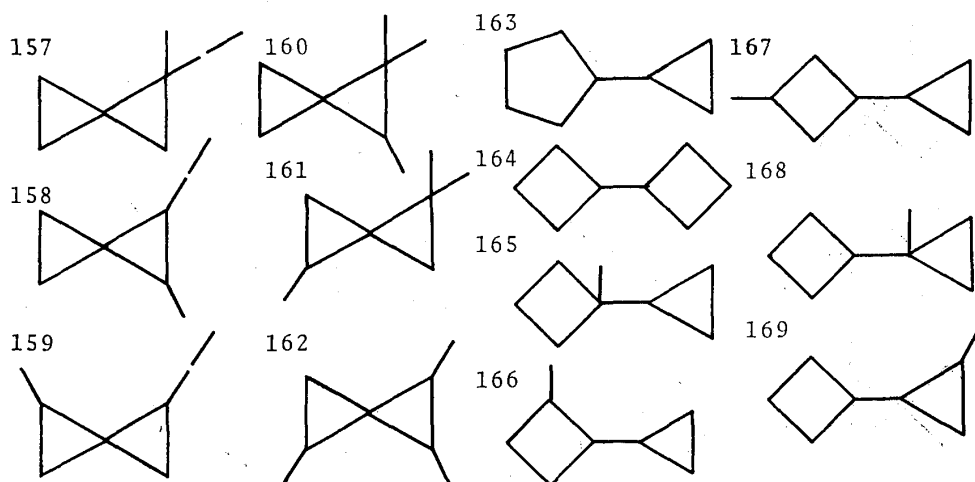


Table II-22

No	$P_G(X)$	$P(G,k)$					Z
		k=	0	1	2	3	
170	$X^8-9X^6+4X^5+22X^4-18X^3-11X^2+14X-3$	1	9	22	15	1	48
171	$X^8-9X^6+4X^5+23X^4-18X^3-12X^2+14X-3$	1	9	23	16	1	50
172	$X^8-9X^6+4X^5+21X^4-16X^3-7X^2+6X$	1	9	21	11		42
173	$X^8-9X^6+4X^5+21X^4-16X^3-5X^2+4X$	1	9	21	9		40
174	$X^8-9X^6+4X^5+22X^4-16X^3-9X^2+6X+1$	1	9	22	13	1	46
175	$X^8-9X^6+4X^5+20X^4-16X^3-5X^2+4X$	1	9	20	9	1	40
176	$X^8-9X^6+4X^5+21X^4-16X^3-6X^2+4X+1$	1	9	21	10	1	42
177	$X^8-9X^6+4X^5+22X^4-16X^3-8X^2+4X+1$	1	9	22	12	1	45
178	$X^8-9X^6+2X^5+22X^4-10X^3-10X^2+4X$	1	9	24	18	2	54
179	$X^8-9X^6+4X^5+23X^4-20X^3-11X^2+16X-4$	1	9	23	15		48
180	$X^8-9X^6+4X^5+22X^4-18X^3-7X^2+6X+1$	1	9	22	11	1	44
181	$X^8-9X^6+4X^5+23X^4-18X^3-10X^2+8X+1$	1	9	23	14	1	48
182	$X^8-9X^6+4X^5+24X^4-20X^3-13X^2+16X-3$	1	9	24	17	1	52

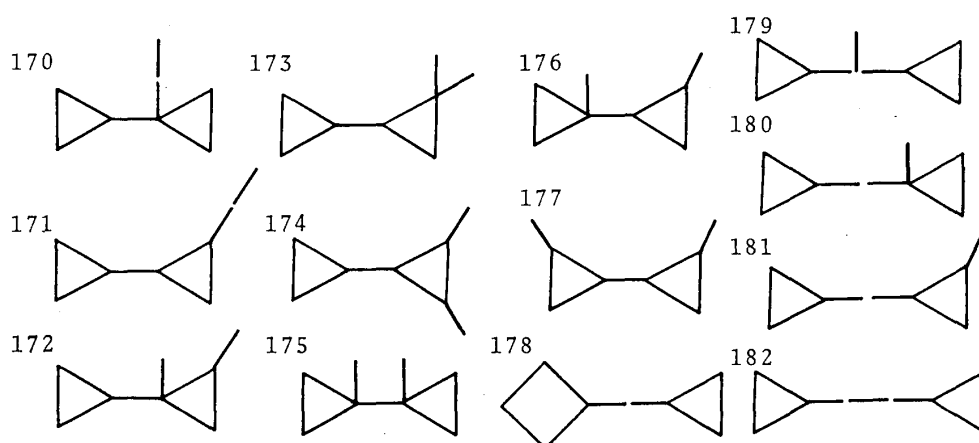


Table III

Ring	N	No.
1	8	24=35, 27=34, 48=53, 61=65
2	7	10=44, 31=50
	8	14=35, 39=77, 44=141, 48=139, 105=120, 107=156, 117=157