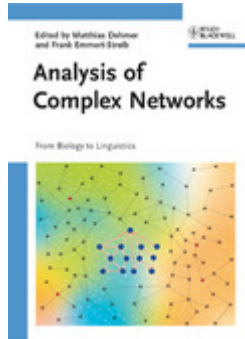


Erratum for

Dehmer, Matthias / Emmert-Streib, Frank (eds.)
Analysis of Complex Networks
From Biology to Linguistics



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→ Please replace table 1.1 on page 9 by the correct version on the following page.

Table 1

G : # edges: list	Polynomial of G	Polynomial of \bar{G}	Sizes of orbits
0:	x^6	$(x+1)^5(x-5)$	6
1: 12	$x^4(x-1)(x+1)$	$x(x+1)^3(x^2-3x-8)$	24
2: 12 56	$x^2(x-1)^2(x+1)^2$	$x^2(x+1)(x+2)(x^2-3x-6)$	24
2: 12 16	$x^4(x^2-2)$	$(x+1)^3(x^3-3x^2-7x+3)$	123
3: 16 23 45	$(x+1)^3(x-1)^3$	$x^3(x+2)^2(x-4)$	6
3: 15 16 56	$x^3(x+1)^2(x-2)$	$x^2(x+1)^2(x^2-2x-9)$	33
3: 12 16 23	$x^2(x^2-x-1)(x^2+x-1)$	$(x+1)(x^2+x-1)(x^3-2x^2-8x-3)$	222
3: 12 15 16	$x^4(x^2-3)$	$(x+1)^3(x^3-3x^2-6x+4)$	123
3: 16 23 56	$x^2(x+1)(x-1)(x^2-2)$	$x(x+1)(x^4-x^3-11x^2-7x+4)$	1122
4: 12 15 24 45	$x^4(x-2)(x+2)$	$(x-1)(x+1)^3(x^2-2x-7)$	24
4: 12 16 34 45	$x^2(x^2-2)^2$	$(x+1)^2(x^2-4x+1)(x^2+2x-1)$	24
4: 12 16 23 45	$(x-1)(x+1)(x^2-x-1)(x^2+x-1)$	$x(x^2+x-1)(x^3-x^2-9x-4)$	222
4: 15 16 23 56	$x(x-1)(x-2)(x+1)^3$	$x^3(x^3-11x-12)$	123
4: 12 15 16 34	$x^2(x+1)(x-1)(x^2-3)$	$x(x+1)^2(x^3-2x^2-8x+4)$	123
4: 12 14 15 16	$x^4(x-2)(x+2)$	$(x+1)^3(x^3-3x^2-5x+3)$	114
4: 12 15 16 56	$x^2(x+1)(x^3-x^2-3x+1)$	$x(x+1)(x+2)(x^3-3x^2-4x+2)$	1122
4: 12 16 23 56	$x^2(x-1)(x+1)(x^2-3)$	$x(x+1)(x+2)(x^3-3x^2-4x+4)$	1122
4: 12 15 16 23	$x^2(x^4-4x^2+2)$	$(x+1)(x^5-x^4-10x^3-6x^2+7x+3)$	11112
5: 12 15 16 23 24	$x^2(x-1)(x+1)(x-2)(x+2)$	$(x-1)(x+2)(x+1)^2(x^2-3x-2)$	24
5: 14 16 23 45 56	$x^2(x-1)(x+1)(x-2)(x+2)$	$x(x-1)(x+1)^2(x^2-x-8)$	24
5: 12 16 24 45 56	$x(x-2)(x^2+x-1)^2$	$(x^2+x-1)^2(x^2-2x-5)$	15
5: 12 23 24 25 26	$x^4(x^2-5)$	$x(x-4)(x+1)^4$	15
5: 12 14 15 24 45	$x^3(x+1)(x^2-x-4)$	$x(x+1)^2(x^3-2x^2-7x+4)$	222
5: 12 16 34 45 56	$(x^3-x^2-2x+1)(x^3+x^2-2x-1)$	$(x^3-2x^2-5x+1)(x^3+2x^2-x-1)$	222
5: 15 16 23 34 56	$x(x-2)(x+1)^2(x^2-2)$	$x^2(x+1)(x^3-x^2-9x+3)$	123
5: 12 15 16 45 56	$x^2(x^2-x-3)(x^2+x-1)$	$(x+1)(x^2+x-1)(x^3-2x^2-6x+1)$	1122
5: 12 14 15 16 56	$x^2(x+1)(x^3-x^2-4x+2)$	$x(x+1)(x^4-x^3-9x^2-5x+4)$	1122
5: 12 15 16 23 45	$(x-1)(x+1)(x^4-4x^2+1)$	$x(x+2)(x^4-2x^3-6x^2+2x+4)$	1122
5: 15 16 23 45 56	$(x-1)(x+1)^2(x^3-x^2-3x+1)$	$x^2(x^4-10x^2-8x+4)$	1122
5: 16 25 35 45 56	$x^2(x^4-5x^2+3)$	$(x+1)^2(x^4-2x^3-7x^2+2x+3)$	1113
5: 12 15 16 23 56	$x(x-1)(x+1)(x^3-4x-2)$	$x(x^5-10x^3-10x^2+5x+4)$	11112

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Table 1 – Continued

G : # edges: list	Polynomial of G	Polynomial of \bar{G}	Sizes of orbits
5: 12 15 16 24 45	$x^2(x^4 - 5x^2 + 2)$	$(x+1)(x^5 - x^4 - 9x^3 - 3x^2 + 10x + 4)$	11112
5: 16 24 34 45 56	$x^2(x^4 - 5x^2 + 5)$	$(x+1)(x^5 - x^4 - 9x^3 - x^2 + 7x - 1)$	11112
6: 12 16 23 34 45 56	$(x-1)^2(x+1)^2(x+2)(x-2)$	$x^2(x-1)(x+2)^2(x-3)$	6
6: 15 16 23 24 34 56	$(x-2)^2(x+1)^4$	$x^4(x-3)(x+3)$	6
6: 12 15 16 23 25 45	$(x^2 - 2x - 1)(x^2 + x - 1)^2$	$(x^2 - 2x - 4)(x^2 + x - 1)^2$	33
6: 12 14 15 24 25 45	$x^2(x-3)(x+1)^3$	$x^3(x+1)(x^2 - x - 8)$	24
6: 12 14 16 34 45 56	$(x^3 - 2x^2 - x + 1)(x^3 + 2x^2 - x - 1)$	$(x^3 - x^2 - 6x - 3)(x^3 + x^2 - 2x - 1)$	222
6: 14 15 16 23 45 56	$x(x-1)(x+1)^2(x^2 - x - 4)$	$x^2(x+1)(x^3 - x^2 - 8x + 4)$	222
6: 12 15 23 24 45 56	$x^2(x-1)(x+1)(x^2 - 5)$	$x(x-1)(x+1)(x+2)(x^2 - 2x - 4)$	222
6: 12 15 23 24 35 45	$x^4(x^2 - 6)$	$(x+1)^3(x^3 - 3x^2 - 3x + 7)$	123
6: 12 13 14 15 16 56	$x^2(x+1)(x^3 - x^2 - 5x + 3)$	$x^2(x+1)^2(x^2 - 2x - 6)$	123
6: 12 14 15 16 24 56	$x(x-1)(x+1)^2(x^2 - x - 4)$	$x^2(x+2)(x^3 - 2x^2 - 5x + 2)$	114
6: 12 15 16 24 45 56	$x^2(x+2)(x^3 - 2x^2 - 2x + 2)$	$(x-1)(x+1)(x^4 - 8x^2 - 8x + 1)$	1122
6: 13 16 23 34 45 56	$(x-1)(x^2 + x - 1)(x^3 - 4x - 1)$	$(x+2)(x^2 + x - 1)(x^3 - 3x^2 - x + 2)$	1122
6: 12 13 14 16 45 56	$x^2(x^4 - 6x^2 + 4)$	$(x-1)(x+1)^2(x^3 - x^2 - 7x - 3)$	1122
6: 12 15 16 23 24 56	$x(x+1)(x^4 - x^3 - 5x^2 + 3x + 4)$	$x(x+1)(x^4 - x^3 - 8x^2 + 2x + 4)$	1122
6: 12 15 23 24 25 45	$x^2(x^4 - 6x^2 - 4x + 2)$	$(x+1)(x^5 - x^4 - 8x^3 - 2x^2 + 5x - 1)$	11112
6: 12 15 24 25 34 45	$x(x+1)(x^4 - x^3 - 5x^2 + x + 2)$	$x(x+2)(x^4 - 2x^3 - 5x^2 + 2x + 2)$	11112
6: 14 16 23 34 45 56	$x^2(x^4 - 6x^2 + 6)$	$(x+1)(x^5 - x^4 - 8x^3 + 2x^2 + 9x - 1)$	11112
6: 12 13 15 16 45 56	$x^2(x^4 - 6x^2 - 2x + 5)$	$x(x+1)(x^4 - x^3 - 8x^2 - 2x + 6)$	11112
6: 15 16 23 34 45 56	$(x+1)^2(x^4 - 2x^3 - 3x^2 + 6x - 1)$	$x^2(x^4 - 9x^2 - 4x + 7)$	11112
6: 12 14 15 16 23 56	$(x-1)(x+1)(x^4 - 5x^2 - 2x + 1)$	$x(x^5 - 9x^3 - 8x^2 + 5x + 4)$	11112
6: 12 15 16 23 45 56	$x^6 - 6x^4 - 2x^3 + 7x^2 + 2x - 1$	$x^6 - 9x^4 - 6x^3 + 8x^2 + 2x - 1$	111111
7: 12 16 23 25 34 45 56	$(x+1)(x-1)(x^2 - 2x - 1)(x^2 + 2x - 1)$	$x(x+2)(x^2 - 2)(x^2 - 2x - 2)$	24

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Table 1 – Continued

G : # edges: list	Polynomial of G	Polynomial of \bar{G}	Sizes of orbits
7: 14 15 16 23 45 46 56	$(x+1)^4(x-3)(x-1)$	$x^4(x^2-8)$	24
7: 15 16 23 24 34 45 56	$(x+1)^2(x^2-3)(x^2-2x-1)$	$x^2(x^2-2x-2)(x^2+2x-2)$	24
7: 13 16 23 26 34 45 56	$x(x^2+x-1)(x^3-x^2-5x+4)$	$(x-1)(x+1)(x^2+x-1)(x^2-x-5)$	222
7: 12 15 23 24 25 45 56	$x^2(x^2+x-1)(x^2-x-5)$	$(x+1)(x^2+x-1)(x^3-2x^2-4x+1)$	222
7: 12 15 16 24 25 34 45	$(x-1)(x+1)^2(x^3-x^2-5x+1)$	$x^2(x+2)(x^3-2x^2-4x+4)$	222
7: 12 14 15 16 25 45 56	$x^3(x-3)(x+1)(x+2)$	$x(x+1)^2(x^3-2x^2-5x+4)$	123
7: 15 16 25 34 35 45 56	$(x-1)(x+1)^2(x^3-x^2-5x+1)$	$x^3(x+2)(x^2-2x-4)$	114
7: 12 15 16 24 26 45 56	$x^2(x+1)(x^3-x^2-6x+2)$	$x(x+1)(x^4-x^3-7x^2+x+8)$	1122
7: 12 14 15 16 24 45 56	$x(x^2+x-1)(x^3-x^2-5x-2)$	$(x^2+x-1)(x^4-x^3-6x^2-x+1)$	1122
7: 12 16 23 24 34 45 56	$(x^2+x-1)(x^4-x^3-5x^2+2x+4)$	$(x^2+x-1)(x^4-x^3-6x^2+3x+1)$	1122
7: 14 16 23 24 34 45 56	$x(x+1)(x^4-x^3-6x^2+4x+4)$	$x(x-1)(x+1)(x^3-7x-4)$	1122
7: 12 13 15 24 34 45 56	$x^2(x^4-7x^2+4)$	$(x+1)^2(x^4-2x^3-5x^2+6x+4)$	1122
7: 12 14 16 23 24 45 56	$x^2(x-1)(x+2)(x^2-x-4)$	$(x+1)(x-1)(x+2)(x^3-2x^2-3x+2)$	1122
7: 14 16 24 34 45 46 56	$x^2(x+2)(x^3-2x^2-3x+2)$	$x(x+1)^2(x^3-2x^2-5x+2)$	1122
7: 12 15 16 23 24 25 56	$x(x-1)(x+1)(x+2)(x^2-2x-2)$	$x(x+1)(x^4-x^3-7x^2+x+4)$	1122
7: 12 14 15 24 25 34 45	$x(x+1)^2(x^3-2x^2-4x+2)$	$x^2(x^4-8x^2-6x+3)$	1113
7: 12 13 15 16 24 34 45	$x^2(x^4-7x^2+3)$	$(x+1)^2(x^4-2x^3-5x^2+4x+3)$	1113
7: 12 14 15 16 23 45 56	$x(x^5-7x^3-4x^2+7x+4)$	$(x+1)(x^5-x^4-7x^3+3x^2+3x-1)$	11112
7: 14 15 16 23 24 45 56	$x(x+1)^2(x^3-2x^2-4x+6)$	$x^2(x^4-8x^2-2x+7)$	11112
7: 15 16 24 25 34 45 56	$(x+1)(x^5-x^4-6x^3+2x^2+7x-1)$	$x^2(x^4-8x^2-4x+6)$	11112
7: 12 15 16 23 24 25 45	$x^6-7x^4-4x^3+6x^2+2x-1$	$x^6-8x^4-6x^3+7x^2+4x-1$	111111
7: 12 15 16 24 34 45 56	$x^6-7x^4-2x^3+8x^2+2x-1$	$x^6-8x^4-4x^3+9x^2+4x-1$	111111
7: 12 14 16 24 34 45 56	$x^6-7x^4-2x^3+7x^2-1$	$x(x^5-8x^3-6x^2+8x+6)$	111111

Table 1: Characteristic Polynomials and sizes of orbits of all the graphs on six vertices.

The authors wish to thank Emeric Deutsch for pointing out errors in the original table.