

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$\bar{g}^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^2 3^1$	3^1	3.000	1.000
4	$3^1 4^1$	$3^1 4^1$	3.500	1.000
5	3^1	3^2	3.000	2.000
6	3^1	3^4	3.000	4.000
Total	$0^6 3^4 4^1$	$3^8 4^1$	3.200	1.800

Girth distribution of $\mathcal{G}(4)$.

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$\bar{g}^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^3 3^1$	3^1	3.000	1.000
4	$0^3 3^2 4^1$	$3^2 4^1$	3.333	1.000
5	$3^4 4^1 5^1$	$3^5 4^1 5^1$	3.500	1.167
6	$3^5 4^1$	$3^{11} 4^3$	3.167	2.333
7	3^4	3^{12}	3.000	3.000
8	3^2	3^9	3.000	4.500
9	3^1	3^7	3.000	7.000
10	3^1	3^{10}	3.000	10.000
Total	$0^{10} 3^{20} 4^3 5^1$	$3^{57} 4^5 5^1$	3.208	2.625

Girth distribution of $\mathcal{G}(5)$.

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$\bar{g}^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^4 3^1$	3^1	3.000	1.000
4	$0^6 3^2 4^1$	$3^2 4^1$	3.333	1.000
5	$0^6 3^6 4^2 5^1$	$3^7 4^2 5^1$	3.444	1.111
6	$3^{14} 4^5 5^1 6^1$	$3^{22} 4^7 5^1 6^1$	3.476	1.476
7	$3^{20} 4^4$	$3^{41} 4^9$	3.167	2.083
8	$3^{22} 4^2$	$3^{60} 4^{11}$	3.083	2.958
9	$3^{20} 4^1$	$3^{77} 4^9$	3.048	4.095
10	3^{15}	3^{83}	3.000	5.533
11	3^9	3^{66}	3.000	7.333
12	3^5	3^{48}	3.000	9.600
13	3^2	3^{25}	3.000	12.500
14	3^1	3^{16}	3.000	16.000
15	3^1	3^{20}	3.000	20.000
Total	$0^{20} 3^{118} 4^{15} 5^2 6^1$	$3^{468} 4^{39} 5^2 6^1$	3.162	3.750

Girth distribution of $\mathcal{G}(6)$.

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$\bar{g}^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^4 3^1$	3^1	3.000	1.000
4	$0^7 3^2 4^1$	$3^2 4^1$	3.333	1.000
5	$0^{11} 3^7 4^2 5^1$	$3^8 4^2 5^1$	3.400	1.100
6	$0^{11} 3^{20} 4^7 5^2 6^1$	$3^{28} 4^9 5^2 6^1$	3.467	1.333
7	$3^{45} 4^{14} 5^4 6^1 7^1$	$3^{71} 4^{21} 5^4 6^1 7^1$	3.446	1.508
8	$3^{79} 4^{17} 5^1$	$3^{158} 4^{43} 5^2$	3.196	2.093
9	$3^{120} 4^{11}$	$3^{310} 4^{48}$	3.084	2.733
10	$3^{143} 4^5$	$3^{493} 4^{39}$	3.034	3.595
11	$3^{147} 4^1$	$3^{671} 4^{12}$	3.007	4.615
12	$3^{130} 4^1$	$3^{783} 4^{18}$	3.008	6.115
13	3^{97}	3^{746}	3.000	7.691
14	3^{65}	3^{633}	3.000	9.738
15	3^{41}	3^{502}	3.000	12.244
16	3^{21}	3^{315}	3.000	15.000
17	3^{10}	3^{181}	3.000	18.100
18	3^5	3^{108}	3.000	21.600
19	3^2	3^{51}	3.000	25.500
20	3^1	3^{30}	3.000	30.000
21	3^1	3^{35}	3.000	35.000
Total	$0^{37} 3^{937} 4^{59} 5^8 6^2 7^1$	$3^{5126} 4^{193} 5^9 6^2 7^1$	3.084	5.294

Girth distribution of $\mathcal{G}(7)$.

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$\bar{g}^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^4 3^1$	3^1	3.000	1.000
4	$0^8 3^2 4^1$	$3^2 4^1$	3.333	1.000
5	$0^{14} 3^7 4^2 5^1$	$3^8 4^2 5^1$	3.400	1.100
6	$0^{23} 3^{22} 4^8 5^2 6^1$	$3^{30} 4^{10} 5^2 6^1$	3.455	1.303
7	$0^{23} 3^{62} 4^{21} 5^6 6^2 7^1$	$3^{90} 4^{28} 5^6 6^2 7^1$	3.467	1.380
8	$3^{152} 4^{51} 5^{11} 6^5 7^1 8^1$	$3^{253} 4^{85} 5^{12} 6^5 7^1 8^1$	3.439	1.615
9	$3^{326} 4^{70} 5^5 6^1$	$3^{656} 4^{168} 5^9 6^3$	3.206	2.080
10	$3^{597} 4^{65} 5^1$	$3^{1483} 4^{248} 5^4$	3.101	2.617
11	$3^{939} 4^{41}$	$3^{2936} 4^{248}$	3.042	3.249
12	$3^{1290} 4^{22}$	$3^{5161} 4^{216}$	3.017	4.098
13	$3^{1548} 4^9$	$3^{7881} 4^{130}$	3.006	5.145
14	$3^{1643} 4^3$	$3^{10520} 4^{62}$	3.002	6.429
15	$3^{1555} 4^2$	$3^{12389} 4^{57}$	3.001	7.994
16	$3^{1311} 4^1$	$3^{12813} 4^{36}$	3.001	9.793
17	3^{980}	3^{11600}	3.000	11.837
18	3^{663}	3^{9401}	3.000	14.179
19	3^{402}	3^{6762}	3.000	16.821
20	3^{221}	3^{4367}	3.000	19.760
21	3^{115}	3^{2659}	3.000	23.122
22	3^{56}	3^{1496}	3.000	26.714
23	3^{24}	3^{736}	3.000	30.667
24	3^{11}	3^{383}	3.000	34.818
25	3^5	3^{198}	3.000	39.600
26	3^2	3^{89}	3.000	44.500
27	3^1	3^{50}	3.000	50.000
28	3^1	3^{56}	3.000	56.000
Total	$0^{76} 3^{11936} 4^{296} 5^{26} 6^9 7^2 8^1$	$3^{92020} 4^{1291} 5^{34} 6^{11} 7^2 8^1$	3.032	7.609

Girth distribution of $\mathcal{G}(8)$.

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$\bar{g}^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^4 3^1$	3^1	3.000	1.000
4	$0^8 3^2 4^1$	$3^2 4^1$	3.333	1.000
5	$0^{15} 3^7 4^2 5^1$	$3^8 4^2 5^1$	3.400	1.100
6	$0^{29} 3^{23} 4^8 5^2 6^1$	$3^{31} 4^{10} 5^2 6^1$	3.441	1.294
7	$0^{46} 3^{69} 4^{23} 5^7 6^2 7^1$	$3^{97} 4^{30} 5^7 6^2 7^1$	3.461	1.343
8	$0^{47} 3^{200} 4^{70} 5^{18} 6^7 7^2 8^1$	$3^{307} 4^{106} 5^{19} 6^7 7^2 8^1$	3.470	1.483
9	$3^{548} 4^{164} 5^{38} 6^{14} 7^5 8^1 9^1$	$3^{950} 4^{289} 5^{43} 6^{16} 7^5 8^1 9^1$	3.406	1.693
10	$3^{1329} 4^{278} 5^{26} 6^4$	$3^{2691} 4^{661} 5^{47} 6^9$	3.209	2.082
11	$3^{2911} 4^{333} 5^8$	$3^{7005} 4^{1137} 5^{24}$	3.107	2.511
12	$3^{5687} 4^{307} 5^1$	$3^{16687} 4^{1592} 5^6$	3.052	3.050
13	$3^{9913} 4^{207}$	$3^{35877} 4^{1609}$	3.020	3.704
14	$3^{15497} 4^{118}$	$3^{69475} 4^{1367}$	3.008	4.537
15	$3^{21880} 4^{53}$	$3^{120869} 4^{882}$	3.002	5.551
16	$3^{27962} 4^{25}$	$3^{188649} 4^{586}$	3.001	6.762
17	$3^{32394} 4^9$	$3^{264091} 4^{272}$	3.000	8.159
18	$3^{34036} 4^4$	$3^{331973} 4^{161}$	3.000	9.757
19	$3^{32402} 4^1$	$3^{374540} 4^{48}$	3.000	11.560
20	$3^{27986} 4^1$	$3^{380080} 4^{60}$	3.000	13.583
21	3^{21933}	3^{347256}	3.000	15.833
22	3^{15615}	3^{286179}	3.000	18.327
23	3^{10120}	3^{213280}	3.000	21.075
24	3^{5995}	3^{144411}	3.000	24.089
25	3^{3252}	3^{89058}	3.000	27.386
26	3^{1637}	3^{50700}	3.000	30.971
27	3^{771}	3^{26879}	3.000	34.863
28	3^{345}	3^{13486}	3.000	39.090
29	3^{148}	3^{6453}	3.000	43.601
30	3^{63}	3^{3047}	3.000	48.365
31	3^{25}	3^{1338}	3.000	53.520
32	3^{11}	3^{647}	3.000	58.818
33	3^5	3^{323}	3.000	64.600
34	3^2	3^{141}	3.000	70.500
35	3^1	3^{77}	3.000	77.000
36	3^1	3^{84}	3.000	84.000
Total	$0^{153} 3^{272771} 4^{1604} 5^{101} 6^{28} 7^8 8^2 9^1$	$3^{2976692} 4^{8813} 5^{149} 6^{35} 7^8 8^2 9^1$	3.007	10.876

Girth distribution of $\mathcal{G}(9)$.

m	$g(n, k)$ sequence	$g^*(n, k)$ sequence	$\bar{g}(n)$	$g^*(n)$
0	0^1	—	—	—
1	0^1	—	—	—
2	0^2	—	—	—
3	$0^4 3^1$	3^1	3.000	1.000
4	$0^8 3^2 4^1$	$3^2 4^1$	3.333	1.000
5	$0^{16} 3^7 4^2 5^1$	$3^8 4^2 5^1$	3.400	1.100
6	$0^{32} 3^{23} 4^8 5^2 6^1$	$3^{31} 4^{10} 5^2 6^1$	3.441	1.294
7	$0^{60} 3^{71} 4^{24} 5^7 6^2 7^1$	$3^{99} 4^{31} 5^7 6^2 7^1$	3.457	1.333
8	$0^{99} 3^{220} 4^{78} 5^{20} 6^8 7^2 8^1$	$3^{329} 4^{114} 5^{21} 6^8 7^2 8^1$	3.471	1.444
9	$0^{106} 3^{684} 4^{224} 5^{57} 6^{22} 7^7 8^2 9^1$	$3^{1112} 4^{357} 5^{62} 6^{24} 7^7 8^2 9^1$	3.449	1.570
10	$3^{2002} 4^{573} 5^{122} 6^{50} 7^{14} 8^6 9^1 10^1$	$3^{3606} 4^{1055} 5^{149} 6^{57} 7^{14} 8^6 9^1 10^1$	3.385	1.766
11	$3^{5500} 4^{1121} 5^{116} 6^{21} 7^1$	$3^{11241} 4^{2616} 5^{203} 6^{46} 7^2$	3.210	2.087
12	$3^{13984} 4^{1728} 5^{57} 6^3$	$3^{33183} 4^{5521} 5^{157} 6^{15}$	3.117	2.465
13	$3^{32566} 4^{2085} 5^{12}$	$3^{91399} 4^{9349} 5^{54}$	3.061	2.908
14	$3^{69314} 4^{2003} 5^1$	$3^{233383} 4^{12846} 5^8$	3.028	3.453
15	$3^{134887} 4^{1545} 5^1$	$3^{548560} 4^{14066} 5^{12}$	3.011	4.124
16	$3^{240607} 4^{970}$	$3^{1181477} 4^{12449}$	3.004	4.942
17	$3^{394649} 4^{517}$	$3^{2327909} 4^{9155}$	3.001	5.914
18	$3^{595949} 4^{242}$	$3^{4191140} 4^{5813}$	3.000	7.040
19	$3^{828624} 4^{104}$	$3^{6891250} 4^{3272}$	3.000	8.319
20	$3^{1061114} 4^{45}$	$3^{10352836} 4^{1811}$	3.000	9.758
21	$3^{1251369} 4^{20}$	$3^{14216090} 4^{1007}$	3.000	11.361
22	$3^{1358845} 4^7$	$3^{17849991} 4^{426}$	3.000	13.136
23	$3^{1358849} 4^3$	$3^{20508171} 4^{216}$	3.000	15.092
24	$3^{1251387} 4^2$	$3^{21570823} 4^{174}$	3.000	17.238
25	$3^{1061158} 4^1$	$3^{20778061} 4^{100}$	3.000	19.581
26	3^{828728}	$3^{18340185}$	3.000	22.131
27	3^{596191}	$3^{14843230}$	3.000	24.897
28	3^{395166}	$3^{11020722}$	3.000	27.889
29	3^{241577}	$3^{7517138}$	3.000	31.117
30	3^{136433}	$3^{4719363}$	3.000	34.591
31	3^{71318}	$3^{2732979}$	3.000	38.321
32	3^{34663}	$3^{1466857}$	3.000	42.318
33	3^{15772}	3^{734830}	3.000	46.591
34	3^{6759}	3^{345714}	3.000	51.149
35	3^{2769}	3^{155054}	3.000	55.996
36	3^{1103}	3^{67448}	3.000	61.150
37	3^{428}	3^{28488}	3.000	66.561
38	3^{165}	3^{11921}	3.000	72.248
39	3^{66}	3^{5160}	3.000	78.182
40	3^{26}	3^{2193}	3.000	84.346
41	3^{11}	3^{999}	3.000	90.818
42	3^5	3^{488}	3.000	97.600
43	3^2	3^{209}	3.000	104.50
44	3^1	3^{112}	3.000	112.00
45	3^1	3^{120}	3.000	120.00
Total	$0^{329} 3^{11992996} 4^{11303} 5^{396} 6^{107} 7^{25} 8^9 9^2 10^1$	$3^{182783912} 4^{80391} 5^{676} 6^{153} 7^{26} 8^9 9^2 10^1$	3.001	15.233

Girth distribution of $\mathcal{G}(10)$.