

Multidegrees for copious graphs on 7 vertices

	Non-Edges	Multidegree
1	{12, 23, 57, 14, 34, 56, 13, 67, 24}	$5*s^4*t^6 + 16*s^3*t^7 + 15*s^2*t^8 + 5*s*t^9 + t^{10}$
2	{12, 23, 14, 34, 56, 13, 24}	$5*s^4*t^7 + 16*s^3*t^8 + 18*s^2*t^9 + 7*s*t^{10} + t^{11}$
3	{12, 23, 14, 34, 13, 24}	$5*s^4*t^7 + 16*s^3*t^8 + 18*s^2*t^9 + 8*s*t^{10} + t^{11}$
4	{12, 23, 45, 34, 56, 13, 67, 16, 24}	$5*s^4*t^7 + 13*s^3*t^8 + 10*s^2*t^9 + 4*s*t^{10} + t^{11}$
5	{12, 23, 45, 34, 56, 13, 16, 24}	$5*s^4*t^7 + 15*s^3*t^8 + 14*s^2*t^9 + 6*s*t^{10} + t^{11}$
6	{12, 23, 45, 17, 34, 56, 13, 67, 24}	$5*s^4*t^7 + 15*s^3*t^8 + 12*s^2*t^9 + 5*s*t^{10} + t^{11}$
7	{12, 23, 45, 34, 56, 13, 67, 24}	$5*s^4*t^7 + 18*s^3*t^8 + 16*s^2*t^9 + 6*s*t^{10} + t^{11}$
8	{12, 23, 45, 57, 34, 56, 13, 24}	$5*s^4*t^7 + 16*s^3*t^8 + 13*s^2*t^9 + 5*s*t^{10} + t^{11}$
9	{12, 23, 45, 17, 34, 56, 13, 24}	$5*s^4*t^7 + 15*s^3*t^8 + 15*s^2*t^9 + 6*s*t^{10} + t^{11}$
10	{12, 23, 45, 34, 56, 13, 24}	$5*s^4*t^7 + 18*s^3*t^8 + 18*s^2*t^9 + 7*s*t^{10} + t^{11}$
11	{12, 23, 45, 34, 13, 16, 24}	$5*s^4*t^7 + 15*s^3*t^8 + 16*s^2*t^9 + 7*s*t^{10} + t^{11}$
12	{12, 23, 45, 34, 13, 24}	$5*s^4*t^7 + 18*s^3*t^8 + 20*s^2*t^9 + 8*s*t^{10} + t^{11}$
13	{12, 23, 34, 56, 13, 67, 24}	$10*s^4*t^7 + 29*s^3*t^8 + 21*s^2*t^9 + 7*s*t^{10} + t^{11}$
14	{12, 23, 34, 56, 13, 47, 24}	$5*s^4*t^7 + 18*s^3*t^8 + 20*s^2*t^9 + 7*s*t^{10} + t^{11}$
15	{12, 23, 34, 56, 13, 24}	$10*s^4*t^7 + 29*s^3*t^8 + 25*s^2*t^9 + 8*s*t^{10} + t^{11}$
16	{12, 23, 34, 13, 24}	$10*s^4*t^7 + 29*s^3*t^8 + 27*s^2*t^9 + 9*s*t^{10} + t^{11}$
17	{12, 23, 45, 25, 34, 56, 13, 16, 46}	$5*s^4*t^7 + 10*s^3*t^8 + 10*s^2*t^9 + 5*s*t^{10} + t^{11}$
18	{12, 23, 45, 25, 34, 56, 13, 67, 46}	$5*s^4*t^7 + 13*s^3*t^8 + 12*s^2*t^9 + 5*s*t^{10} + t^{11}$
19	{12, 23, 45, 25, 34, 56, 13, 46}	$5*s^4*t^7 + 14*s^3*t^8 + 14*s^2*t^9 + 6*s*t^{10} + t^{11}$
20	{12, 23, 45, 25, 34, 56, 13, 67, 16}	$5*s^4*t^7 + 12*s^3*t^8 + 11*s^2*t^9 + 5*s*t^{10} + t^{11}$
21	{12, 23, 45, 25, 34, 56, 13, 16}	$5*s^4*t^7 + 13*s^3*t^8 + 13*s^2*t^9 + 6*s*t^{10} + t^{11}$
22	{12, 23, 45, 25, 34, 56, 13, 67}	$5*s^4*t^7 + 17*s^3*t^8 + 16*s^2*t^9 + 6*s*t^{10} + t^{11}$
23	{12, 23, 45, 25, 34, 56, 13, 47}	$5*s^4*t^7 + 14*s^3*t^8 + 14*s^2*t^9 + 6*s*t^{10} + t^{11}$
24	{12, 23, 45, 25, 17, 34, 56, 13}	$5*s^4*t^7 + 15*s^3*t^8 + 14*s^2*t^9 + 6*s*t^{10} + t^{11}$
25	{12, 23, 45, 25, 34, 56, 13}	$5*s^4*t^7 + 17*s^3*t^8 + 17*s^2*t^9 + 7*s*t^{10} + t^{11}$
26	{12, 23, 45, 25, 34, 13, 67, 16}	$5*s^4*t^7 + 16*s^3*t^8 + 16*s^2*t^9 + 6*s*t^{10} + t^{11}$
27	{12, 23, 45, 25, 34, 13, 16}	$5*s^4*t^7 + 16*s^3*t^8 + 17*s^2*t^9 + 7*s*t^{10} + t^{11}$
28	{12, 23, 45, 25, 34, 13, 67}	$5*s^4*t^7 + 20*s^3*t^8 + 21*s^2*t^9 + 7*s*t^{10} + t^{11}$
29	{12, 23, 45, 25, 34, 13}	$5*s^4*t^7 + 20*s^3*t^8 + 21*s^2*t^9 + 8*s*t^{10} + t^{11}$
30	{12, 23, 45, 34, 56, 13, 67, 46}	$10*s^4*t^7 + 22*s^3*t^8 + 17*s^2*t^9 + 6*s*t^{10} + t^{11}$
31	{12, 23, 45, 34, 56, 13, 46}	$10*s^4*t^7 + 26*s^3*t^8 + 21*s^2*t^9 + 7*s*t^{10} + t^{11}$
32	{12, 23, 45, 34, 56, 13, 67, 47}	$10*s^4*t^7 + 22*s^3*t^8 + 17*s^2*t^9 + 6*s*t^{10} + t^{11}$
33	{12, 23, 45, 34, 56, 13, 67}	$15*s^4*t^7 + 33*s^3*t^8 + 22*s^2*t^9 + 7*s*t^{10} + t^{11}$
34	{12, 23, 45, 57, 34, 56, 13}	$15*s^4*t^7 + 30*s^3*t^8 + 20*s^2*t^9 + 7*s*t^{10} + t^{11}$
35	{12, 23, 45, 34, 56, 13}	$15*s^4*t^7 + 36*s^3*t^8 + 26*s^2*t^9 + 8*s*t^{10} + t^{11}$
36	{12, 23, 45, 34, 13, 67, 46}	$10*s^4*t^7 + 26*s^3*t^8 + 21*s^2*t^9 + 7*s*t^{10} + t^{11}$
37	{12, 23, 45, 34, 13, 46}	$10*s^4*t^7 + 29*s^3*t^8 + 24*s^2*t^9 + 8*s*t^{10} + t^{11}$
38	{12, 23, 45, 34, 13}	$15*s^4*t^7 + 39*s^3*t^8 + 30*s^2*t^9 + 9*s*t^{10} + t^{11}$
39	{12, 23, 57, 25, 34, 56, 13, 67, 46}	$10*s^4*t^7 + 18*s^3*t^8 + 13*s^2*t^9 + 5*s*t^{10} + t^{11}$
40	{12, 23, 25, 17, 34, 56, 13, 67, 46}	$5*s^4*t^7 + 16*s^3*t^8 + 11*s^2*t^9 + 5*s*t^{10} + t^{11}$
41	{12, 23, 57, 25, 17, 34, 56, 13, 46}	$5*s^4*t^7 + 15*s^3*t^8 + 12*s^2*t^9 + 5*s*t^{10} + t^{11}$
42	{12, 23, 25, 34, 56, 13, 67, 46}	$10*s^4*t^7 + 22*s^3*t^8 + 15*s^2*t^9 + 6*s*t^{10} + t^{11}$
43	{12, 23, 57, 25, 34, 56, 13, 46}	$10*s^4*t^7 + 21*s^3*t^8 + 16*s^2*t^9 + 6*s*t^{10} + t^{11}$
44	{12, 23, 25, 17, 34, 56, 13, 46}	$5*s^4*t^7 + 19*s^3*t^8 + 16*s^2*t^9 + 6*s*t^{10} + t^{11}$
45	{12, 23, 25, 34, 56, 13, 46}	$10*s^4*t^7 + 25*s^3*t^8 + 20*s^2*t^9 + 7*s*t^{10} + t^{11}$
46	{12, 23, 25, 34, 56, 13, 67}	$10*s^4*t^7 + 28*s^3*t^8 + 21*s^2*t^9 + 7*s*t^{10} + t^{11}$
47	{12, 23, 57, 25, 34, 56, 13}	$10*s^4*t^7 + 24*s^3*t^8 + 19*s^2*t^9 + 7*s*t^{10} + t^{11}$
48	{12, 23, 25, 34, 56, 13, 47}	$10*s^4*t^7 + 25*s^3*t^8 + 21*s^2*t^9 + 7*s*t^{10} + t^{11}$

49	{12, 23, 25, 34, 56, 13}	$10s^4t^7 + 28s^3t^8 + 24s^2t^9 + 8s^*t^{10} + t^{11}$
50	{12, 23, 25, 34, 13, 67, 16}	$5s^4t^7 + 19s^3t^8 + 19s^2t^9 + 7s^*t^{10} + t^{11}$
51	{12, 23, 25, 34, 13, 16}	$5s^4t^7 + 19s^3t^8 + 21s^2t^9 + 8s^*t^{10} + t^{11}$
52	{12, 23, 25, 34, 13}	$10s^4t^7 + 31s^3t^8 + 28s^2t^9 + 9s^*t^{10} + t^{11}$
53	{12, 23, 34, 56, 13, 67}	$20s^4t^7 + 43s^3t^8 + 27s^2t^9 + 8s^*t^{10} + t^{11}$
54	{12, 23, 34, 56, 13, 47}	$15s^4t^7 + 36s^3t^8 + 27s^2t^9 + 8s^*t^{10} + t^{11}$
55	{12, 23, 34, 56, 13, 27}	$10s^4t^7 + 31s^3t^8 + 26s^2t^9 + 8s^*t^{10} + t^{11}$
56	{12, 23, 34, 56, 13}	$20s^4t^7 + 46s^3t^8 + 32s^2t^9 + 9s^*t^{10} + t^{11}$
57	{12, 13, 23, 34}	$20s^4t^7 + 49s^3t^8 + 36s^2t^9 + 10s^*t^{10} + t^{11}$
58	{12, 23, 45, 56, 13, 37, 67, 46}	$15s^4t^7 + 26s^3t^8 + 18s^2t^9 + 6s^*t^{10} + t^{11}$
59	{12, 23, 45, 56, 13, 67, 46}	$20s^4t^7 + 37s^3t^8 + 23s^2t^9 + 7s^*t^{10} + t^{11}$
60	{12, 23, 45, 56, 13, 46}	$25s^4t^7 + 47s^3t^8 + 28s^2t^9 + 8s^*t^{10} + t^{11}$
61	{12, 23, 45, 56, 13, 67, 47}	$20s^4t^7 + 37s^3t^8 + 23s^2t^9 + 7s^*t^{10} + t^{11}$
62	{12, 23, 45, 56, 13, 67}	$25s^4t^7 + 47s^3t^8 + 28s^2t^9 + 8s^*t^{10} + t^{11}$
63	{12, 23, 45, 57, 56, 13}	$25s^4t^7 + 44s^3t^8 + 26s^2t^9 + 8s^*t^{10} + t^{11}$
64	{12, 23, 45, 56, 13}	$30s^4t^7 + 56s^3t^8 + 33s^2t^9 + 9s^*t^{10} + t^{11}$
65	{12, 23, 45, 13, 67}	$30s^4t^7 + 56s^3t^8 + 34s^2t^9 + 9s^*t^{10} + t^{11}$
66	{12, 13, 23, 45}	$35s^4t^7 + 65s^3t^8 + 39s^2t^9 + 10s^*t^{10} + t^{11}$
67	{12, 13, 23}	$40s^4t^7 + 74s^3t^8 + 45s^2t^9 + 11s^*t^{10} + t^{11}$
68	{12, 23, 45, 57, 14, 34, 56, 67, 36}	$5s^4t^7 + 13s^3t^8 + 12s^2t^9 + 5s^*t^{10} + t^{11}$
69	{12, 23, 45, 14, 34, 56, 67, 36}	$5s^4t^7 + 15s^3t^8 + 14s^2t^9 + 6s^*t^{10} + t^{11}$
70	{12, 23, 45, 14, 34, 56, 36}	$5s^4t^7 + 16s^3t^8 + 17s^2t^9 + 7s^*t^{10} + t^{11}$
71	{12, 23, 45, 26, 57, 14, 34, 56, 67}	$10s^4t^7 + 16s^3t^8 + 12s^2t^9 + 4s^*t^{10} + t^{11}$
72	{12, 23, 45, 26, 14, 34, 56, 37, 67}	$5s^4t^7 + 14s^3t^8 + 11s^2t^9 + 5s^*t^{10} + t^{11}$
73	{12, 23, 45, 26, 14, 34, 56, 67}	$10s^4t^7 + 20s^3t^8 + 15s^2t^9 + 6s^*t^{10} + t^{11}$
74	{12, 23, 45, 26, 14, 34, 56, 37}	$5s^4t^7 + 17s^3t^8 + 15s^2t^9 + 6s^*t^{10} + t^{11}$
75	{12, 23, 45, 26, 14, 34, 56}	$10s^4t^7 + 23s^3t^8 + 19s^2t^9 + 7s^*t^{10} + t^{11}$
76	{12, 23, 45, 14, 34, 56, 37, 67}	$5s^4t^7 + 20s^3t^8 + 16s^2t^9 + 6s^*t^{10} + t^{11}$
77	{12, 23, 45, 14, 34, 56, 67}	$10s^4t^7 + 29s^3t^8 + 21s^2t^9 + 7s^*t^{10} + t^{11}$
78	{12, 23, 45, 57, 14, 34, 56}	$10s^4t^7 + 24s^3t^8 + 19s^2t^9 + 7s^*t^{10} + t^{11}$
79	{12, 23, 45, 14, 34, 56}	$10s^4t^7 + 29s^3t^8 + 24s^2t^9 + 8s^*t^{10} + t^{11}$
80	{12, 23, 45, 14, 34, 67, 36}	$5s^4t^7 + 20s^3t^8 + 19s^2t^9 + 7s^*t^{10} + t^{11}$
81	{12, 23, 45, 14, 34, 36}	$5s^4t^7 + 20s^3t^8 + 21s^2t^9 + 8s^*t^{10} + t^{11}$
82	{12, 23, 45, 26, 14, 34, 67}	$10s^4t^7 + 25s^3t^8 + 20s^2t^9 + 7s^*t^{10} + t^{11}$
83	{12, 23, 45, 26, 14, 34, 37}	$5s^4t^7 + 17s^3t^8 + 17s^2t^9 + 7s^*t^{10} + t^{11}$
84	{12, 23, 45, 26, 14, 34}	$10s^4t^7 + 27s^3t^8 + 23s^2t^9 + 8s^*t^{10} + t^{11}$
85	{12, 23, 45, 14, 34}	$10s^4t^7 + 33s^3t^8 + 28s^2t^9 + 9s^*t^{10} + t^{11}$
86	{12, 23, 14, 34, 56, 67}	$20s^4t^7 + 44s^3t^8 + 27s^2t^9 + 8s^*t^{10} + t^{11}$
87	{12, 23, 14, 34, 56, 47}	$10s^4t^7 + 33s^3t^8 + 26s^2t^9 + 8s^*t^{10} + t^{11}$
88	{12, 23, 14, 34, 56}	$20s^4t^7 + 48s^3t^8 + 32s^2t^9 + 9s^*t^{10} + t^{11}$
89	{12, 23, 34, 14}	$20s^4t^7 + 52s^3t^8 + 36s^2t^9 + 10s^*t^{10} + t^{11}$
90	{12, 23, 15, 45, 34, 56, 67}	$10s^4t^7 + 28s^3t^8 + 21s^2t^9 + 7s^*t^{10} + t^{11}$
91	{12, 23, 15, 45, 34, 56, 47}	$10s^4t^7 + 26s^3t^8 + 20s^2t^9 + 7s^*t^{10} + t^{11}$
92	{12, 23, 15, 45, 34, 56, 37}	$15s^4t^7 + 28s^3t^8 + 20s^2t^9 + 7s^*t^{10} + t^{11}$
93	{12, 23, 15, 45, 34, 56}	$15s^4t^7 + 34s^3t^8 + 25s^2t^9 + 8s^*t^{10} + t^{11}$
94	{12, 23, 15, 45, 34, 67}	$15s^4t^7 + 38s^3t^8 + 27s^2t^9 + 8s^*t^{10} + t^{11}$
95	{12, 23, 15, 45, 34}	$20s^4t^7 + 44s^3t^8 + 31s^2t^9 + 9s^*t^{10} + t^{11}$
96	{12, 23, 45, 57, 34, 56, 67, 16}	$10s^4t^7 + 25s^3t^8 + 17s^2t^9 + 6s^*t^{10} + t^{11}$
97	{12, 23, 45, 34, 56, 67, 16, 47}	$10s^4t^7 + 23s^3t^8 + 16s^2t^9 + 6s^*t^{10} + t^{11}$
98	{12, 23, 45, 34, 56, 37, 67, 16}	$10s^4t^7 + 22s^3t^8 + 16s^2t^9 + 6s^*t^{10} + t^{11}$

99	{12, 23, 45, 34, 56, 67, 16}	$15s^4t^7 + 32s^3t^8 + 21s^2t^9 + 7s^*t^{10} + t^{11}$
100	{12, 23, 45, 34, 56, 16}	$20s^4t^7 + 41s^3t^8 + 26s^2t^9 + 8s^*t^{10} + t^{11}$
101	{12, 23, 45, 17, 34, 56, 67}	$15s^4t^7 + 35s^3t^8 + 22s^2t^9 + 7s^*t^{10} + t^{11}$
102	{12, 23, 45, 34, 56, 67}	$20s^4t^7 + 43s^3t^8 + 27s^2t^9 + 8s^*t^{10} + t^{11}$
103	{12, 23, 45, 34, 56, 47}	$15s^4t^7 + 37s^3t^8 + 26s^2t^9 + 8s^*t^{10} + t^{11}$
104	{12, 23, 45, 34, 56}	$25s^4t^7 + 51s^3t^8 + 32s^2t^9 + 9s^*t^{10} + t^{11}$
105	{12, 23, 45, 34, 67, 36}	$10s^4t^7 + 31s^3t^8 + 25s^2t^9 + 8s^*t^{10} + t^{11}$
106	{12, 23, 45, 34, 36}	$15s^4t^7 + 40s^3t^8 + 30s^2t^9 + 9s^*t^{10} + t^{11}$
107	{12, 23, 34, 45}	$30s^4t^7 + 61s^3t^8 + 38s^2t^9 + 10s^*t^{10} + t^{11}$
108	{12, 23, 34, 56, 67}	$30s^4t^7 + 57s^3t^8 + 33s^2t^9 + 9s^*t^{10} + t^{11}$
109	{12, 23, 34, 56, 47}	$25s^4t^7 + 53s^3t^8 + 33s^2t^9 + 9s^*t^{10} + t^{11}$
110	{12, 56, 23, 34}	$35s^4t^7 + 67s^3t^8 + 39s^2t^9 + 10s^*t^{10} + t^{11}$
111	{12, 23, 34}	$40s^4t^7 + 77s^3t^8 + 45s^2t^9 + 11s^*t^{10} + t^{11}$
112	{12, 23, 45, 56, 67, 24}	$20s^4t^7 + 40s^3t^8 + 26s^2t^9 + 8s^*t^{10} + t^{11}$
113	{12, 23, 45, 57, 56, 24}	$20s^4t^7 + 36s^3t^8 + 25s^2t^9 + 8s^*t^{10} + t^{11}$
114	{12, 23, 45, 56, 47, 24}	$10s^4t^7 + 29s^3t^8 + 24s^2t^9 + 8s^*t^{10} + t^{11}$
115	{12, 23, 45, 56, 24}	$20s^4t^7 + 45s^3t^8 + 31s^2t^9 + 9s^*t^{10} + t^{11}$
116	{12, 23, 45, 24, 46}	$10s^4t^7 + 32s^3t^8 + 28s^2t^9 + 9s^*t^{10} + t^{11}$
117	{12, 23, 24, 45}	$20s^4t^7 + 51s^3t^8 + 36s^2t^9 + 10s^*t^{10} + t^{11}$
118	{12, 23, 24}	$30s^4t^7 + 68s^3t^8 + 43s^2t^9 + 11s^*t^{10} + t^{11}$
119	{12, 23}	$60s^4t^7 + 100s^3t^8 + 53s^2t^9 + 12s^*t^{10} + t^{11}$
120	{12, 45, 34, 67, 46}	$20s^4t^7 + 48s^3t^8 + 32s^2t^9 + 9s^*t^{10} + t^{11}$
121	{12, 45, 34, 27, 46}	$30s^4t^7 + 54s^3t^8 + 32s^2t^9 + 9s^*t^{10} + t^{11}$
122	{12, 34, 45, 46}	$30s^4t^7 + 62s^3t^8 + 38s^2t^9 + 10s^*t^{10} + t^{11}$
123	{12, 34, 45, 26}	$40s^4t^7 + 70s^3t^8 + 39s^2t^9 + 10s^*t^{10} + t^{11}$
124	{12, 34, 45}	$50s^4t^7 + 85s^3t^8 + 46s^2t^9 + 11s^*t^{10} + t^{11}$
125	{12, 56, 34, 67}	$40s^4t^7 + 72s^3t^8 + 40s^2t^9 + 10s^*t^{10} + t^{11}$
126	{12, 56, 34}	$55s^4t^7 + 90s^3t^8 + 47s^2t^9 + 11s^*t^{10} + t^{11}$
127	{12, 34}	$70s^4t^7 + 107s^3t^8 + 54s^2t^9 + 12s^*t^{10} + t^{11}$
128	{12}	$90s^4t^7 + 128s^3t^8 + 62s^2t^9 + 13s^*t^{10} + t^{11}$
129	{}	$120s^4t^7 + 154s^3t^8 + 71s^2t^9 + 14s^*t^{10} + t^{11}$