

Scan

A4102f

RWR

(= R W Robinson)

Computer printout

add to S seqs

For Neil Sloane (f91)

A4102-7
Every thing is Final

P.S. Re # of unlabeled cubic graphs
on 22 pts is 7,373,924.

A666
A595
A4102-7

TOTALS FOR CASE A :

ADD=1 AEVEN=1 BODD=2 BEVEN=2

P=1	: 1 / 1
P=2	: 2 / 1
P=3	: 4 / 1
P=4	: 11 / 1
P=5	: 34 / 1
P=6	: 156 / 1
P=7	: 1044 / 1
P=8	: 12346 / 1
P=9	: 274668 / 1
P=10	: 12005168 / 1
P=11	: 1018997864 / 1
P=12	: 165091172592 / 1
P=13	: 50502031367952 / 1
P=14	: 29054155657235488 / 1
P=15	: 31426485969804308768 / 1
P=16	: 64001015704527557894928 / 1
P=17	: 245935864153532932683719776 / 1
P=18	: 1787577725145611700547878190848 / 1
P=19	: 24637809253125004524383007491432768 / 1
P=20	: 645490122795799841856164638490742749440 / 1
P=21	: 32220272899808983433502244253755283616097664 / 1
P=22	: 3070846483094144300637568517187105410586657814272 / 1

N479

~~OMIT~~ (have)

A88

(a) all graphs

3 to enter

3 to enter 10/06

TOTALS FOR CASE B :

OMIT the "/1" at end of line

ADD=1 AEVEN=1 BODD=3 BEVEN=3

P=1	: 1 / 1	New Sequence
P=2	: 3 / 1	Enter
P=3	: 10 / 1	Name: Signed graphs
P=4	: 66 / 1	Ref: CA2 2 ³¹ 77. RWR.
P=5	: 792 / 1	
P=6	: 25506 / 1	
P=7	: 2302938 / 1	
P=8	: 591901884 / 1	
P=9	: 420784762014 / 1	
P=10	: 819833163057369 / 1	
P=11	: 4382639993148435207 / 1	
P=12	: 64588133532185722290294 / 1	
P=13	: 2638572375815762804156666529 / 1	
P=14	: 300400208094064113266621946833097 / 1	
P=15	: 95776892467035669509813163910815022152 / 1	
P=16	: 85889854971974139366236016465813617130244518 / 1	
P=17	: 217483464719266038671474458514013512757245682148170 / 1	
P=18	: 1560315761261207861498336706313606646207037327079592287770 / 1	
P=19	: 3181562879424081646537341961764851768727582654956765073680573	
P=20	: 1848902428320736916919944232959875532174989101342363574698941	
P=21	: 3069867690105328605924161840217204572530794048130546572909407	
P=22	: 1459631665924779525623082953349956228868627248403305477519801	

SSC A4102

(b) Signed graphs

8 to enter 10/06

TOTALS FOR CASE C :

ADD=2 AEVEN=2 BODD=2 BEVEN=2

Inlabeled; $P = \text{no. of pts.}$ ~~4102~~
(1 is to be ignored.)

→ 666
4102
4107
595

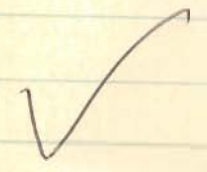
R.W. Robinson
6/3/78

(We simply had the old list
file printed out again).

ter 10/06

The basic formulas are discussed
and numbers (b) - (i) for $P \leq 12$
are presented, in the article
"Exposition of the Enumeration of
Point-Line-Signed Graphs" by Frank
Harary and Robert W. Robinson,
Proc. 2nd Caribbean Conf. in Combinatorics
and Computing (R.C. Read and C.C. Cadogan
eds.), Univ. of the West Indies,
Barbados, 1977) pp. 20-33.

raphs



0961 / 1
197350729510 / 1
37798926163625935432 / 1
59374608608151378981892948893 / 1

4548423

MOORE PAPERBACK Ref. No. 279 x 381

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P=1 : 2 / 1
 P=2 : 6 / 1
 P=3 : 20 / 1
 P=4 : 90 / 1
 P=5 : 544 / 1
 P=6 : 5096 / 1
 P=7 : 79264 / 1
 P=8 : 2208612 / 1
 P=9 : 113743760 / 1
 P=10 : 10926227136 / 1
 P=11 : 1956363435360 / 1
 P=12 : 652335084592096 / 1
 P=13 : 405402273420996800 / 1
 P=14 : 470568642161119963904 / 1
 P=15 : 1023063423471189431054720 / 1
 P=16 : 4178849203082023236058229792 / 1
 P=17 : 32168008290073542372004082199424 / 1
 P=18 : 468053896898117580623237189908861696 / 1
 P=19 : 12908865186281154904787051023018388368640 / 1
 P=20 : 676599895346467962508983189158040730734206464 / 1
 P=21 : 67557268911383303274368343026941404659790140175872 / 1
 P=22 : 12878644470123443279570180725329554086442149175832124416 / 1

~~New sequence~~
 Enter
 Name: Marked graphs.
 Ref: CA2 2 31 77.
 (e) Marke
 A666
 OMIT (NG)
 Prave

7 to enter 10/06

TOTALS FOR CASE D :

ADD=2 AEVEN=2 BODD=3 BEVEN=3
 New sequence
 Enter

P=1 : 2 / 1
 P=2 : 9 / 1
 P=3 : 56 / 1
 P=4 : 705 / 1
 P=5 : 19548 / 1
 P=6 : 1419237 / 1
 P=7 : 278474976 / 1
 P=8 : 148192635483 / 1
 P=9 : 213558945249402 / 1
 P=10 : 836556995284293897 / 1
 P=11 : 8962975658381123937708 / 1
 P=12 : 264404516190234685662666051 / 1
 P=13 : 21610417954162750247842392794292 / 1
 P=14 : 4921335335427778307206708119839406529 / 1
 P=15 : 4921335335427778307206708119839406529 / 1
 P=16 : 5628806916428651582310194172238872266072533642272 / 1
 P=17 : 28505857591197358367426191858066530629023031445781155468 / 1
 P=18 : 4090266880101854153436894903135424095726958495176339508340534
 P=19 : 1668054134549401864537582735216118912947226454299269416165866
 P=20 : 1938714237282442068513383703536885203321842376461999134999569
 P=21 : 6437978584425054415392822820816559997898604928763705904003585
 P=22 : 6122138732118583619557001922828923577243077070302037743313429

(d) Nets
 Name: Nets.
 Ref: CA2 2 32 77. RWR.
 SSC
 A4103

10 to enter 10/06

TOTALS FOR CASE E :

ADD=1 AEVEN=1 BODD=1 BEVEN=3
 New seq
 Enter!

P=1 : 1 / 1
 P=2 : 1 / 1
 P=3 : 2 / 1
 P=4 : 6 / 1
 P=5 : 20 / 1
 P=6 : 86 / 1
 P=7 : 662 / 1
 P=8 : 8120 / 1
 P=9 : 171526 / 1

Name: _____
 Ref: CA2 2 31 77. RWR.
 (e) self-duals

d graphs

46)



49 / 1
6506903494 / 1
467785689128453534 / 1
29800785233373517228965214 / 1
65549921077426722149367174415312929 / 1

igned graphs.

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MOORE PAPER PRODUCTS Ref. No. 279 x 381

P=10 : 5909259 / 1
 P=11 : 348089533 / 1
 P=12 : 33883250874 / 1
 P=13 : 5476590066777 / 1
 P=14 : 1490141905609371 / 1
 P=15 : 666003784522738152 / 1
 P=16 : 509204473666338077658 / 1
 P=17 : 636051958071749028811326 / 1
 P=18 : 1375164117171886868027357906 / 1
 P=19 : 4844133410739656724629165903483 / 1
 P=20 : 29777568550007746192195431057341474 / 1
 P=21 : 297946800183089845037994032971589147860 / 1
 P=22 : 5231119899260911373529064211112631692345003 / 1

SSC

A4104

5 to enter 10/06

TOTALS FOR CASE F :

ADD=0 AEVEN=2 BODD=2 BEVEN=2

P=1 : 0 / 1
 P=2 : 2 / 1
 P=3 : 0 / 1
 P=4 : 10 / 1
 P=5 : 0 / 1
 P=6 : 104 / 1
 P=7 : 0 / 1
 P=8 : 3044 / 1
 P=9 : 0 / 1
 P=10 : 291968 / 1
 P=11 : 0 / 1
 P=12 : 96928992 / 1
 P=13 : 0 / 1
 P=14 : 112282908928 / 1
 P=15 : 0 / 1
 P=16 : 458297100061728 / 1
 P=17 : 0 / 1
 P=18 : 6666621572153927936 / 1
 P=19 : 0 / 1
 P=20 : 349390545493499839161856 / 1
 P=21 : 0 / 1
 P=22 : 66603421985078180758538636288 / 1
 P=23 : 0 / 1
 P=24 : 46557456482586989066031126651104256 / 1
 P=25 : 0 / 1
 P=26 : 120168591267113007604119117625289606148096 / 1

omit zero

Enter Have (N)

A595

Name :
 (f) Self-dual man

Ref CA2 2 31 77.

OMIT

have all

TOTALS FOR CASE G :

ADD=0 AEVEN=2 BODD=3 BEVEN=3

P=1 : 0 / 1
 P=2 : 3 / 1
 P=3 : 0 / 1
 P=4 : 45 / 1
 P=5 : 0 / 1
 P=6 : 3411 / 1
 P=7 : 0 / 1
 P=8 : 1809459 / 1
 P=9 : 0 / 1
 P=10 : 7071729867 / 1
 P=11 : 0 / 1
 P=12 : 208517974495911 / 1
 P=13 : 0 / 1
 P=14 : 47481903377454219975 / 1
 P=15 : 0 / 1

omit zero

New Seq

Enter: Name : ~~point self~~
 Ref :

SSC (g)

point-self-

A4105

/ 1

6870634271 / 1

ef as above seq.

dual nets

u & ref as above seq.

l nets

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P=22 : 76239078635131851885116768114137369439908725 / 1
P=23 : 0 / 1
P=24 : 1993740665738393963407160679148278564159885825872392776 / 1
P=25 : 0 / 1
P=26 : 4331471098683676895149591282747197054339485762753348563005932

4 to enter 10/06

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