

$$\frac{F\# 729}{64}$$

$$\frac{B 243}{32}$$

$$\frac{F\# 1458}{64}$$

$$\frac{B 486}{32}$$

$$\frac{E 81}{16}$$

$$\frac{A 27}{8}$$

$$\frac{E 162}{16}$$

$$\frac{F\# 2916}{64}$$

$$\frac{B 972}{32}$$

$$\frac{D 9}{4}$$

$$\frac{G 3}{2}$$

$$\frac{A 54}{8}$$

$$\frac{D 18}{4}$$

$$\frac{E 324}{16}$$

$$\frac{F\# 5832}{64}$$

$$\frac{B 1944}{32}$$

$$\frac{C 2}{1}$$

$$\frac{G 6}{2}$$

$$\frac{D 36}{4}$$

$$\frac{A 108}{8}$$

$$\frac{E 648}{16}$$

$$\frac{F\# 11664}{64}$$

$$\frac{B 3888}{32}$$

$$\frac{C 4}{1}$$

$$\frac{G 12}{2}$$

$$\frac{D 72}{4}$$

$$\frac{A 216}{8}$$

$$\frac{E 1296}{16}$$

$$\frac{F\# 23328}{64}$$

$$\frac{B 7776}{32}$$

$$\frac{G 24}{2}$$

$$\frac{C 8}{1}$$

$$\frac{D 144}{4}$$

$$\frac{A 432}{8}$$

$$\frac{E 2592}{16}$$

$$\frac{F\# 46656}{64}$$

$$\frac{B 15552}{32}$$

$$\frac{G 48}{2}$$

$$\frac{C 16}{1}$$

$$\frac{D 288}{4}$$

$$\frac{A 864}{8}$$

$$\frac{E 5184}{16}$$

BI-AXIAL GRID, 2/1 by 3/2
 (after Nichomachus Per McClain)
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 * See the Myth of Invariants chart by Ernest G. McClain, 1976

$$\frac{G 96}{2}$$

$$\frac{C 32}{1}$$

$$\frac{D 576}{4}$$

$$\frac{A 1728}{8}$$

$$\frac{G 192}{2}$$

$$\frac{C 64}{1}$$

Fig 2. Pythagorean Series, modulo 53/ Bosanquet Gral. Kbd, Shown on 12x12 Grid

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22 June 2003. EW

481085 +17 3/17 2/38 50	541220 +19 3/19 2/37 6	608873 +21 3/21 2/34 15	684982 +23 3/23 2/37 24	770605 +25 3/25 2/30 33	866930 +27 3/27 2/33 42	975296 +29 3/29 2/35 51	1097208 +31 3/31 2/39 7	1234359 +33 3/33 2/52 16	1388654 +35 3/35 2/55 25	1562236 +37 3/37 2/58 34	1757516 +39 3/39 2/61 43
506822 +12 3/12 2/30 1	570174 +14 3/14 2/29 10	641444 +16 3/16 2/26 19	721627 +18 3/18 2/29 28	811830 +20 3/20 2/31 37	913309 +22 3/22 2/35 46	1027473 +24 3/24 2/38 2	1155907 +26 3/26 2/41 11	1300395 +28 3/28 2/44 20	1462944 +30 3/30 2/47 29	1826618 +32 3/32 2/50 38	1851539 +34 3/34 2/53 47
533936 +7 3/7 2/12 5	606677 +9 3/9 2/15 14	675762 +11 3/11 2/18 23	760232 +13 3/13 2/21 32	855262 +15 3/15 2/24 41	962169 +17 3/17 2/27 50	1082440 +19 3/19 2/30 6	12282892 +21 3/21 2/33 15	1369963 +23 3/23 2/36 24	1541209 +25 3/25 2/39 33	1733860 +27 3/27 2/42 42	1950593 +29 3/29 2/45 51
562500 +2 3/2 2/4 9	632813 +4 3/4 2/12 18	711914 +6 3/6 2/16 27	800903 +8 3/8 2/20 36	901016 +10 3/10 2/24 45	1013643 +12 3/12 2/28 54	1140349 +14 3/14 2/32 63	1282892 +16 3/16 2/36 72	1473554 +18 3/18 2/40 81	1623660 +20 3/20 2/44 90	1826618 +22 3/22 2/48 99	2054945 +24 3/24 2/52 108
592593 -3 2/3 3/3 13	666667 -1 2/1 3/3 18	750000 +1 2/1 3/3 27	843750 +3 3/3 2/9 36	949219 +5 3/5 2/13 45	1067871 +7 3/7 2/17 54	1201355 +9 3/9 2/21 63	1351524 +11 3/11 2/25 72	1520465 +13 3/13 2/29 81	1710523 +15 3/15 2/33 90	1924338 +17 3/17 2/37 99	2164881 +19 3/19 2/41 108
624295 -8 2/8 3/8 17	702332 -6 2/6 3/9 22	790123 -4 2/4 3/12 31	888889 -2 2/2 3/15 40	1000000 +0 2/0 3/20 49	1125000 +2 3/3 2/25 58	1265625 +4 3/4 2/30 67	1423828 +6 3/6 2/35 76	1601807 +8 3/8 2/40 85	1802032 +10 3/10 2/45 94	2027287 +12 3/12 2/50 103	2280697 +14 3/14 2/55 112
657694 -13 2/13 3/13 21	739905 -11 2/11 3/15 30	832393 -9 2/9 3/18 39	936443 -7 2/7 3/21 48	1053498 -5 2/5 3/25 57	1185185 -3 2/3 3/30 66	1333333 -1 2/1 3/35 75	1500000 +1 2/1 3/40 84	1687500 +3 3/3 2/45 93	1898438 +5 3/5 2/50 102	2135742 +7 3/7 2/55 111	2402710 +9 3/9 2/60 120
692879 -18 2/18 3/18 25	779489 -16 2/16 3/20 34	876925 -14 2/14 3/24 43	986540 -12 2/12 3/27 52	1109858 -10 2/10 3/30 61	1248590 -8 2/8 3/35 70	1404664 -6 2/6 3/40 80	1580247 -4 2/4 3/45 89	177778 -2 2/2 3/50 98	2000000 +0 2/0 3/60 107	2250000 +2 3/3 2/65 116	2531250 +4 3/4 2/70 125
729946 -23 2/23 3/23 29	821190 -21 2/21 3/27 38	923838 +19 2/19 3/27 47	1039318 +17 2/17 3/27 56	1169233 +15 2/15 3/35 65	1315387 +13 2/13 3/40 74	1479811 +11 2/11 3/45 83	1664787 +9 2/9 3/50 92	1872885 +7 2/7 3/55 101	2106996 +5 2/5 3/60 110	2370370 +3 2/3 3/65 119	2666667 +1 2/1 3/70 128
768997 -28 2/28 3/28 33	865122 -26 2/26 3/32 42	973262 -24 2/24 3/32 51	1094920 -22 2/22 3/32 60	1231785 -20 2/20 3/30 69	1385758 -18 2/18 3/38 78	1558977 -16 2/16 3/42 87	1753850 -14 2/14 3/45 96	1973081 -12 2/12 3/48 105	2219716 -10 2/10 3/50 114	2497180 -8 2/8 3/55 123	2809328 -6 2/6 3/60 132
810137 -33 2/33 3/33 37	911404 -31 2/31 3/37 46	1025329 -29 2/29 3/39 55	1153496 -27 2/27 3/39 64	1297683 -25 2/25 3/42 73	1459893 -23 2/23 3/45 82	1642379 -21 2/21 3/48 91	1847677 -19 2/19 3/51 100	2078636 -17 2/17 3/54 109	2338466 -15 2/15 3/57 118	2826668 -13 2/13 3/60 127	2959621 -11 2/11 3/65 136
853477 -38 2/38 3/38 41	960162 -36 2/36 3/41 50	1080182 -34 2/34 3/43 59	1215205 -32 2/32 3/43 68	1367106 -30 2/30 3/45 77	1537994 -28 2/28 3/48 86	1730243 -26 2/26 3/51 95	1906524 -24 2/24 3/54 104	2189839 -22 2/22 3/57 113	2463569 -20 2/20 3/60 122	2771515 -18 2/18 3/63 131	3117955 -16 2/16 3/66 140

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Ref: Collected Papers of Charles Sanders Peirce, (C.1909)
Vol IV Pages 277-280, 578-580, Harvard University Press, 1933

Pythagorean Lambdoma with Sum- & Difference-Tones

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9 Aug 02. EW

Minus 1 3 9 27 81 243 729

1 0 2 8 26 80 242 728

2 1 4 7 25 79 241 727

4 3 1 5 23 77 239 725

8 7 5 1 19 73 235 721

Difference-Tones

16 15 13 7 11 63 227 713

32 31 29 23 5 49 211 697

64 63 61 55 37 17 179 665

Plus 1 3 9 27 81 243 729

1 2 4 10 28 82 244 730

2 3 5 11 29 83 245 731

4 5 7 13 31 85 247 733

8 9 11 17 35 89 251 737

Sum-Tones

16 17 19 25 43 97 259 745

32 33 35 41 59 113 275 761

64 65 67 73 91 145 307 793

Plus	1	3	9	27	81	243	729	2,187	6,561	19,683	59,049	177,147
1	2	4	10	28	82	244	730	2,188	6,562	19,684	59,050	177,148
2	3	5	11	29	83	245	731	2,189	6,563	19,685	59,051	177,149
4	5	7	13	31	85	247	733	2,191	6,565	19,687	59,053	177,151
8	9	11	17	35	89	251	737	2,195	6,569	19,691	59,057	177,155
16	17	19	25	43	97	259	745	2,203	6,577	19,699	59,065	177,163
32	33	35	41	59	113	275	761	2,219	6,593	19,715	59,081	177,179
64	65	67	73	91	145	307	793	2,251	6,625	19,747	59,113	177,211
128	129	131	137	155	209	371	857	2,315	6,689	19,811	59,177	177,275
256	257	259	265	283	337	499	985	2,443	6,817	19,939	59,305	177,403
512	513	515	521	539	593	755	1,241	2,699	7,073	20,195	59,561	177,659
1,024	1,025	1,027	1,033	1,051	1,105	1,267	1,753	3,211	7,585	20,707	60,073	178,171
2,048	2,049	2,051	2,057	2,075	2,129	2,291	2,777	4,235	8,609	21,731	61,097	179,195
4,096	4,097	4,099	4,105	4,123	4,177	4,177	4,825	6,283	10,657	23,779	63,145	181,243
8,192	8,193	8,195	8,201	8,219	8,273	8,273	8,921	10,379	14,753	27,875	67,241	185,339
16,384	16,385	16,387	16,393	16,411	16,465	16,465	17,113	18,571	22,945	36,067	75,433	193,531
32,768	32,769	32,771	32,777	32,768	32,849	32,849	33,497	34,955	39,329	52,451	91,817	209,915

9 Aug 02. EW

Minus	1	3	9	27	81	243	729	2,187	6,561	19,683	59,049	177,147
1	0	2	8	26	80	242	728	2,186	6,560	19,682	59,048	177,146
2	1	1	7	25	79	241	727	2,185	6,559	19,681	59,047	177,145
4	3	1	5	23	77	239	725	2,183	6,557	19,679	59,045	177,143
8	7	5	1	19	73	235	721	2,179	6,553	19,675	59,041	177,139
16	15	13	7	11	65	227	713	2,171	6,545	19,667	59,033	177,131
32	31	29	23	5	49	211	697	2,155	6,529	19,651	59,017	177,115
64	63	61	55	37	17	179	665	2,123	6,497	19,619	58,985	177,083
128	127	125	119	101	47	115	601	2,059	6,433	19,555	58,921	177,019
256	255	253	247	229	175	13	473	1,931	6,305	19,427	58,793	176,891
512	511	509	503	485	431	269	217	1,675	6,049	19,171	58,537	176,635
1,024	1,023	1,021	1,015	997	943	781	295	1,163	5,537	18,659	58,025	176,123
2,048	2,047	2,045	2,039	2,021	1,967	1,805	1,319	139	4,513	17,635	57,001	175,099
4,096	4,095	4,093	4,087	4,069	4,015	3,853	3,367	1,909	2,465	15,587	54,953	173,051
8,192	8,191	8,189	8,183	8,165	8,111	7,949	7,643	6,005	1,631	11,491	50,857	168,955
16,384	16,383	16,381	16,375	16,357	16,303	16,141	15,655	14,197	9,823	32,99	42,665	160,763
32,768	32,767	32,765	32,759	32,741	32,687	32,525	32,039	30,581	26,207	13,085	26,281	144,739

Scooped "in broad daylight, in front of god and the natives"

$$\begin{array}{r} 2 \quad 14 \\ 26 \overline{) 365} \\ \underline{26} \\ 105 \\ \underline{104} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \quad 28 \\ 13 \overline{) 365} \\ \underline{26} \\ 105 \\ \underline{104} \\ 1 \end{array}$$

"The men from Mars are here"
in their horseless chariots
Playing^{on} stringless lyres praying

For an abundant embryo harvest
In broad daylight.

$$\begin{array}{cccccc} & & & \frac{1}{1} & & \\ & & & \frac{2}{1} & & \frac{8}{7} \\ & & \frac{4}{1} & & \frac{16}{7} & \frac{64}{49} \\ & \frac{8}{1} & \frac{32}{7} & \frac{128}{49} & \frac{512}{343} & \\ \frac{16}{1} & \frac{64}{7} & \frac{256}{49} & \frac{1024}{343} & \frac{4096}{2401} & \\ & \frac{128}{7} & \frac{512}{49} & \frac{2048}{343} & \frac{8192}{2401} & \\ & \frac{1024}{49} & \frac{4096}{343} & \frac{16384}{2401} & & \\ & \frac{8192}{343} & \frac{32768}{2401} & & & \\ & \frac{65,536}{2401} & & & & \end{array}$$

27 JUN 01. EW

after McClain 1976
p. 145, chart 38

- (1)
- A
 - B
 - A² AB B²
 - A³ A²B AB² B³
 - A⁴ A³B A²B² AB³ B⁴
 - A⁴B A³B² A²B³ AB⁴
 - A⁴B² A³B³ A²B⁴
 - A⁴B³ A³B⁴
 - A⁴.B⁴