

Table 4.13

HARMONIC ANALYSIS

r	$\sin \frac{2\pi r}{s}$	$\cos \frac{2\pi r}{s}$	$\sin \frac{2\pi r}{s}$	$\cos \frac{2\pi r}{s}$	$\sin \frac{2\pi r}{s}$	$\cos \frac{2\pi r}{s}$
$s=3$						
1	0.86602	54038	-0.50000	00000		
2						
$s=4$						
1	1.00000	00000	+0.00000	00000		
2	0.00000	00000	-1.00000	00000		
$s=5$						
1	0.95105	65163	+0.30901	69944		
2	0.58778	52523	-0.80901	69944		
$s=6$						
1	0.86602	54038	+0.50000	00000		
2	0.86602	54038	-0.50000	00000		
3	0.00000	00000	-1.00000	00000		
4						
$s=7$						
1	0.78183	14824	+0.62348	98019		
2	0.97492	79122	-0.22252	09340		
3	0.43388	37391	-0.90096	88679		
$s=8$						
1	0.70710	67812	0.70710	67812		
2	1.00000	00000	+0.00000	00000		
3	0.70710	67812	-0.70710	67812		
4	0.00000	00000	-1.00000	00000		
$s=9$						
1	0.64278	76097	0.76604	44431		
2	0.98480	77530	+0.17364	81777		
3	0.86602	54038	-0.50000	00000		
4	0.34202	01433	-0.93969	26208		
5						
$s=10$						
1	0.58778	52523	0.80901	69944		
2	0.95105	65163	+0.30901	69944		
3	0.95105	65163	-0.30901	69944		
4	0.58778	52523	-0.80901	69944		
5	0.00000	00000	-1.00000	00000		
$s=11$						
1	0.54064	08174	0.84125	35328		
2	0.90963	19953	+0.41541	50130		
3	0.98982	14419	-0.14231	48383		
4	0.75574	95743	-0.65486	07340		
5	0.28173	25568	-0.95949	29736		
$s=12$						
1	0.50000	00000	0.86602	54038		
2	0.86602	54038	0.50000	00000		
3	1.00000	00000	+0.00000	00000		
4	0.86602	54038	-0.50000	00000		
5	0.50000	00000	-0.86602	54038		
6	0.00000	00000	-1.00000	00000		
7						
$s=13$						
1	0.46472	31720	0.88545	60257		
2	0.82298	38659	0.56806	47468		
3	0.99270	88741	+0.12053	66803		
4	0.93501	62427	-0.35460	48871		
5	0.66312	26582	-0.74851	07482		
6	0.23931	56643	-0.97094	18174		
7						
$s=14$						
1	0.43388	37391	0.90096	88679		
2	0.78183	14825	0.62348	98019		
3	0.97492	79122	+0.22252	09340		
4	0.74792	79122	-0.22252	09340		
5	0.78183	14825	-0.62348	98019		
6	0.43388	37391	-0.90096	88679		
7	0.00000	00000	-1.00000	00000		
$s=15$						
1	0.40673	66431	0.91354	54576		
2	0.74314	48255	0.66913	06064		
3	0.95105	65163	+0.30901	69944		
4	0.99452	18954	-0.10452	84633		
5	0.86602	54038	-0.50000	00000		
6	0.58778	52523	-0.80901	69944		
7	0.20791	16908	-0.97814	76007		
8						
$s=16$						
1	0.38268	34324	0.92387	95325		
2	0.70710	67812	0.70710	67812		
3	0.92387	95325	0.38268	34324		
4	1.00000	00000	+0.00000	00000		
5	0.92387	95325	-0.38268	34324		
6	0.70710	67812	-0.70710	67812		
7	0.38268	34324	-0.92387	95325		
8	0.00000	00000	-1.00000	00000		
$s=17$						
1	0.36124	16662	0.93247	22294		
2	0.67369	56436	0.73900	89172		
3	0.89516	32913	0.44573	83558		
4	0.99573	41763	+0.09226	83595		
5	0.96182	56432	-0.27366	29901		
6	0.79801	72273	-0.60263	46364		
7	0.52643	21629	-0.85021	71357		
8	0.18374	95178	-0.98297	30997		
$s=18$						
1	0.34202	01433	0.93969	26208		
2	0.64278	76097	0.76604	44431		
3	0.86602	54038	0.50000	00000		
4	0.98480	77530	+0.17364	81777		
5	0.98480	77530	-0.17364	81777		
6	0.86602	54038	-0.50000	00000		
7	0.64278	76097	-0.76604	44431		
8	0.34202	01433	-0.93969	26208		
9	0.00000	00000	-1.00000	00000		
10						
$s=19$						
1	0.32469	94692	0.94581	72417		
2	0.61421	27127	0.78914	05094		
3	0.83716	64782	0.54694	81581		
4	0.96940	02659	+0.24548	54872		
5	0.99658	44930	-0.08257	93455		
6	0.91577	33266	-0.40169	54247		
7	0.73572	39107	-0.67728	15716		
8	0.47594	73930	-0.87947	37512		
9	0.16459	45903	-0.98636	13034		
$s=20$						
1	0.30901	69944	0.95105	65163		
2	0.58778	52523	0.80901	69944		
3	0.80901	69944	0.58778	52523		
4	0.95105	65163	0.30901	69944		
5	1.00000	00000	+0.00000	00000		
6	0.95105	65163	-0.30901	69944		
7	0.80901	69944	-0.58778	52523		
8	0.58778	52523	-0.80901	69944		
9	0.30901	69944	-0.95105	65163		
10	0.00000	00000	-1.00000	00000		
$s=21$						
1	0.29475	51744	0.95557	28058		
2	0.56332	00580	0.82623	87743		
3	0.78183	14825	0.62348	98019		
4	0.93087	37486	0.36534	10244		
5	0.99720	37972	+0.07473	00936		
6	0.97492	79122	-0.22252	09340		
7	0.86602	54038	-0.50000	00000		
8	0.68017	27378	-0.73305	18718		
9	0.43388	37391	-0.90096	88679		
10	0.14904	22662	-0.98883	08262		
11						
$s=22$						
1	0.28173	25568	0.95949	29736		
2	0.54064	08174	0.84125	35328		
3	0.75574	95743	0.65486	07340		
4	0.90963	19953	0.41541	50130		
5	0.98982	14419	+0.14231	48383		
6	0.98982	14419	-0.14231	48383		
7	0.90963	19953	-0.41541	50130		
8	0.75574	95743	-0.65486	07340		
9	0.54064	08174	-0.84125	35328		
10	0.28173	25568	-0.95949	29736		
11	0.00000	00000	-1.00000	00000		
$s=23$						
1	0.26979	67711	0.96291	72874		
2	0.51958	39500	0.85441	94046		
3	0.73083	59643	0.68255	31432		
4	0.88788	52184	0.46006	50378		
5	0.97908	40877	+0.20345	60131		
6	0.99766	87692	-0.06824	24134		
7	0.94226	09221	-0.33487	96122		
8	0.81696	98930	-0.57668	03221		
9	0.63108	79443	-0.77571	12907		
10	0.39840	10898	-0.91721	13015		
11	0.13616	66491	-0.99068	59460		
$s=24$						
1	0.25881	90451	0.96592	58263		
2	0.50000	00000	0.86602	54038		
3	0.70710	67812	0.70710	67812		
4	0.86602	54038	0.50000	00000		
5	0.96592	58263	0.25881	90451		
6	1.00000	00000	+0.00000	00000		
7	0.96592	58263	-0.25881	90451		
8	0.86602	54038	-0.50000	00000		
9	0.70710	67812	-0.70710	67812		
10	0.50000	00000	-0.86602	54038		
11	0.25881	90451	-0.96592	58263		
12	0.00000	00000	-1.00000	00000		
$s=25$						
1	0.24868	98872	0.96858	31611		
2	0.48175	36741	0.87630	66801		
3	0.68454	71059	0.72896	86274		
4	0.84432	79255	0.53582	67950		
5	0.95105	65163	0.30901	69944		
6	0.99802	67284	+0.06279	05196		
7	0.98228	72507	-0.18738	13146		
8	0.90482	70525	-0.42577	92916		
9	0.77051	32428	-0.63742	39898		
10	0.58778	52523	-0.80901	69944		
11	0.36812	45527	-0.92977	64859		
12	0.12533	32336	-0.99211	47013		