FIGURES AND TABLES

1. TABLE 1 - L1(N,K)

$$
\begin{array}{llccccccccccc}
n = 0: & & & & & & 1 & & & & & \\
n = 1: & & & & & 1 & & 1 & & & & \\
n = 2: & & & & 1 & & 7 & & 1 & & & \\
n = 3: & & & 1 & & 13 & & 13 & & 1 & & \\
n = 4: & & 1 & & 19 & & 25 & & 19 & & 1 & \\
n = 5: & 1 & & 25 & & 37 & & 37 & & 25 & & 1 \\
\end{array}
$$

Table 1. Triangle generated by $\mathbf{L}_1(n,k)$, $0 \leq k \leq n$.

2. TABLE 2 - L2(N,K)

$$
\begin{array}{llccccccccccc}
n = 0: & & & & & & 1 & & & & & \\
n = 1: & & & & & 1 & & 1 & & & & \\
n = 2: & & & & 1 & & 31 & & 1 & & & \\
n = 3: & & & 1 & & 121 & & 121 & & 1 & & \\
n = 4: & & 1 & & 271 & & 481 & & 271 & & 1 & \\
n = 5: & 1 & & 481 & & 1081 & & 1081 & & 481 & & 1 \\
\end{array}
$$

Table 2. Triangle generated by $\mathbf{L}_2(n,k)$, $0 \leq k \leq n$.

3. Table 3 - L3(n,k)

$n = 0:$						1						
$n = 1:$					1		1					
$n = 2:$				1		127		1				
$n = 3:$			1		1093		1093		1			
$n = 4:$		1		3793		8905		3793		1		
$n = 5:$	1		8905		30157		30157		8905		1	

Table 3. Triangle generated by $\mathbf{L}_3(n, k)$, $0 \leq k \leq n$.

4. Table 4 - A as triangle

$m = 0:$					1			
$m = 1:$				1		6		
$m = 2:$			1		0		30	
$m = 3:$		1		-14		0		140
$m = 4:$	1		-120		0	0		630
$m = 5:$ 1	-1386		660	0		0		2772

Table 4. Triangle generated by $\mathbf{A}_{m,j}$, $0 \leq j \leq m$.

5. Table 5 - A as tabular

m/r	0	1	2	3	4	5	6	7
0	1							
1	1	6						
2	1	0	30					
3	1	-14	0	140				
4	1	-120	0	0	630			
5	1	-1386	660	0	0	2772		
6	1	-21840	18018	0	0	0	12012	
7	1	-450054	491400	-60060	0	0	0	51480

Table 5. Coefficients $A_{m,r}$.

6. TABLE 6 - CONVOLUTION TABLE OR Q TABLE

n/r	0	1	2	3	4	5	6	7
0	0							
1	1	0						
2	2	0	0					
3	3	1	0	0				
4	4	4	1	0	0			
5	5	10	8	1	0	0		
6	6	20	34	16	1	0	0	
7	7	35	104	118	32	1	0	0

Table 6. Table of $\mathbf{Q}^r(n-r)$, $0 \le r \le n$.

7. TABLE 7 - L1(N,K) TABULAR

n/k	0	1	2	3	4	5	6	7
0	1							
1	1	1						
2	1	7	1					
3	1	13	13	1				
4	1	19	25	19	1			
5	1	25	37	37	25	1		
6	1	31	49	55	49	31	1	
7	1	37	61	73	73	61	37	1

Table 7. Triangle generated by $\mathbf{L}_1(n,k)$, $0 \le k \le n$.

8. TABLE 8 - L2(N,K) TABULAR

n/k	0	1	2	3	4	5	6	7
0	1							
1	1	1						
2	1	31	1					
3	1	121	121	1				
4	1	271	481	271	1			
5	1	481	1081	1081	481	1		
6	1	751	1921	2431	1921	751	1	
7	1	1081	3001	4321	4321	3001	1081	1

Table 8. Triangle generated by $\mathbf{L}_2(n,k)$, $0 \le k \le n$.