

Table F Coefficients of Orthogonal Polynomials

k	Polynomial	x										$\Sigma \xi_i^2$	(λ)	
		1	2	3	4	5	6	7	8	9	10			
3	Linear	-1	0	1									2	1
	Quadratic	1	-2	1									6	3
4	Linear	-3	-1	1	3								20	2
	Quadratic	1	-1	-1	1								4	1
	Cubic	-1	3	-3	1								20	$\frac{10}{3}$
5	Linear	-2	-1	0	1	2							10	1
	Quadratic	2	-1	-2	-1	2							14	1
	Cubic	-1	2	0	-2	1							10	$\frac{5}{3}$
	Quartic	1	-4	6	-4	1							70	$\frac{21}{2}$
6	Linear	-5	-3	-1	1	3	5						70	2
	Quadratic	5	-1	-4	-4	-1	5						84	$\frac{3}{2}$
	Cubic	-5	7	4	-4	-7	5						180	$\frac{5}{3}$
	Quartic	1	-3	2	2	-3	1						28	$\frac{7}{12}$
7	Linear	-3	-2	-1	0	1	2	3					28	1
	Quadratic	5	0	-3	-4	-3	0	5					84	1
	Cubic	-1	1	1	0	-1	-1	1					6	$\frac{1}{2}$
	Quartic	3	-7	1	6	1	-7	3					154	$\frac{11}{12}$
8	Linear	-7	-5	-3	-1	1	3	5	7				168	2
	Quadratic	7	1	-3	-5	-5	-3	1	7				168	1
	Cubic	-7	5	7	3	-3	-7	-5	7				264	$\frac{3}{2}$
	Quartic	7	-13	-3	9	9	-3	-13	7				616	$\frac{7}{12}$
	Quintic	-7	23	-17	-15	15	17	-23	7				2184	$\frac{7}{10}$
9	Linear	-4	-3	-2	-1	0	1	2	3	4			60	1
	Quadratic	28	7	-8	-17	-20	-17	-8	7	28			2772	3
	Cubic	-14	7	13	9	0	-9	-13	-7	14			990	$\frac{5}{6}$
	Quartic	14	-21	-11	9	18	9	-11	-21	14			2002	$\frac{7}{12}$
	Quintic	-4	11	-4	-9	0	9	4	-11	4			468	$\frac{3}{20}$
10	Linear	-9	-7	-5	-3	-1	1	3	5	7	9		330	2
	Quadratic	6	2	-1	-3	-4	-4	-3	-1	2	6		132	$\frac{1}{2}$
	Cubic	-42	14	35	31	12	-12	-31	-35	-14	42		8580	$\frac{5}{3}$
	Quartic	18	-22	-17	3	18	18	3	-17	-22	18		2860	$\frac{7}{12}$
	Quintic	-6	14	-1	-11	-6	6	11	1	-14	6		780	$\frac{1}{10}$