Table 25.1 THREE-POINT LAGRANGIAN INTERPOLATION COEFFICIENTS

$$A_k^3(p) = (-1)^{k+1} \frac{p(p^2-1)}{(1+k)!(1-k)!(p-k)}$$

p	A_{-1}	A_0	A_1	p	A_{-1}	A_0	A_1
0.00	-0.00000	1.00000	0.00000	0.50	-0.12500	0.75000	0.37500
0.01	-0.00495	0.99990	0.00505	0.51	-0.12495	0.73990	0.38505
0.02	-0.00980	0.99960	0.01020	0.52	-0.12480	0.72960	0.39520
0.03	-0.01455	0.99910	0.01545	0.53	-0.12455	0.71910	0.40545
0.04	-0.01920	0.99840	0.02080	0.54	-0.12420	0.70840	0.41580
0.05	-0.02375	0.99750	0.02625	0.55	-0.12375	0.69750	0.42625
0.06	-0.02820	0.99640	0.03180	0.56	-0.12320	0.68640	0.43680
0.07	-0.03255	0.99510	0.03745	0.57	-0.12255	0.67510	0.44745
0.08	-0.03680	0.99360	0.04320	0.58	-0.12180	0.66360	0.45820
0.09	-0.04095	0.99190	0.04905	0.59	-0.12095	0.65190	0.46905
0.10	-0.04500	0.99000	0.05500	0.60	-0.12000	0.64000	0.48000
0.11	-0.04895	0.98790	0.06105	0.61	-0.11895	0.62790	0.49105
0.12	-0.05280	0.98560	0.06720	0.62	-0.11780	0.61560	0.50220
0.13	-0.05655	0.98310	0.07345	0.63	-0.11655	0.60310	0.51345
0.14	-0.06020	0.98040	0.07980	0.64	-0.11520	0.59040	0.52480
0.15	-0.06375	0.97750	0.08625	0.65	-0.11375	0.57750	0.53625
0.16	-0.06720	0.97440	0.09280	0.66	-0.11220	0.56440	0.54780
0.17	-0.07055	0.97110	0.09945	0.67	-0.11055	0.55110	0.55945
0.18	-0.07380	0.96760	0.10620	0.68	-0.10880	0.53760	0.57120
0.19	-0.07695	0.96390	0.11305	0.69	-0.10695	0.52390	0.58305
0.20	-0.08000	0.96000	0.12000	0.70	-0.10500	0.51000	0.59500
0.21	-0.08295	0.95590	0.12705	0.71	-0.10295	0.49590	0.60705
0.22	-0.08580	0.95160	0.13420	0.72	-0.10080	0.48160	0.61920
0.23	-0.08855	0.94710	0.14145	0.73	-0.09855	0.46710	0.63145
0.24	-0.09120	0.94240	0.14880	0.74	-0.09620	0.45240	0.64380
0.25	-0.09375	0.93750	0.15625	0.75	-0.09375	0.43750	0.65625
0.26	-0.09620	0.93240	0.16380	0.76	-0.09120	0.42240	0.66880
0.27	-0.09855	0.92710	0.17145	0.77	-0.08855	0.40710	0.68145
0.28	-0.10080	0.92160	0.17920	0.78	-0.08580	0.39160	0.69420
0.29	-0.10295	0.91590	0.18705	0.79	-0.08295	0.37590	0.70705
0.30	-0.10500	0.91000	0.19500	0.80	-0.08000	0.36000	0.72000
0.31	-0.10695	0.90390	0.20305	0.81	-0.07695	0.34390	0.73305
0.32	-0.10880	0.89760	0.21120	0.82	-0.07380	0.32760	0.74620
0.33	-0.11055	0.89110	0.21945	0.83	-0.07055	0.31110	0.75945
0.34	-0.11220	0.88440	0.22780	0.84	-0.06720	0.29440	0.77280
0.35	-0.11375	0.87750	0.23625	0.85	-0.06375	0.27750	0.78625
0.36	-0.11520	0.87040	0.24480	0.86	-0.06020	0.26040	0.79980
0.37	-0.11655	0.86310	0.25345	0.87	-0.05655	0.24310	0.81345
0.38	-0.11780	0.85560	0.26220	0.88	-0.05280	0.22560	0.82720
0.39	-0.11895	0.84790	0.27105	0.89	-0.04895	0.20790	0.84105
0.40	-0.12000	0.84000	0.28000	0.90	-0.04500	0.19000	0.85500
0.41	-0.12095	0.83190	0.28905	0.91	-0.04095	0.17190	0.86905
0.42	-0.12180	0.82360	0.29820	0.92	-0.03680	0.15360	0.88320
0.43	-0.12255	0.81510	0.30745	0.93	-0.03255	0.13510	0.89745
0.44	-0.12320	0.80640	0.31680	0.94	-0.02820	0.11640	0.91180
0.45	-0.12375	0.79750	0.32625	0.95	-0.02375	0.09750	0.92625
0.46	-0.12420	0.78840	0.33580	0.96	-0.01920	0.07840	0.94080
0.47	-0.12455	0.77910	0.34545	0.97	-0.01455	0.05910	0.95545
0.48	-0.12480	0.76960	0.35520	0.98	-0.00980	0.03960	0.97020
0.49	-0.12495	0.75990	0.36505	0.99	-0.00495	0.01990	0.98505
0.50	-0.12500	0.75000	0.37500	1.00	-0.00000	0.00000	1.00000
$-p$	A_1	A_0	A_{-1}	$-p$	A_1	A_0	A_{-1}

See **25.2.6.**

Compiled from National Bureau of Standards, Tables of Lagrangian interpolation coefficients. Columbia Univ. Press, New York, N.Y., 1944 (with permission).