

FOUR-POINT LAGRANGIAN INTERPOLATION COEFFICIENTS

Table 25.1

$$A_k^4(p) = (-1)^{k+2} \frac{p(p^2-1)(p-2)}{(1+k)!(2-k)!(p-k)}$$

$p$	$A_{-1}$	$A_0$	$A_1$	$A_2$	
0.00	0.00000 00	1.00000 00	0.00000 00	0.00000 00	1.00
0.01	-0.00328 35	0.99490 05	0.01004 95	-0.00166 65	0.99
0.02	-0.00646 80	0.98960 40	0.02019 60	-0.00333 20	0.98
0.03	-0.00955 45	0.98411 35	0.03043 65	-0.00499 55	0.97
0.04	-0.01254 40	0.97843 20	0.04076 80	-0.00665 60	0.96
0.05	-0.01543 75	0.97256 25	0.05118 75	-0.00831 25	0.95
0.06	-0.01823 60	0.96650 80	0.06169 20	-0.00996 40	0.94
0.07	-0.02094 05	0.96027 15	0.07227 85	-0.01160 95	0.93
0.08	-0.02355 20	0.95385 60	0.08294 40	-0.01324 80	0.92
0.09	-0.02607 15	0.94726 45	0.09368 55	-0.01487 85	0.91
0.10	-0.02850 00	0.94050 00	0.10450 00	-0.01650 00	0.90
0.11	-0.03083 85	0.93356 55	0.11538 45	-0.01811 15	0.89
0.12	-0.03308 80	0.92646 40	0.12633 60	-0.01971 20	0.88
0.13	-0.03524 95	0.91919 85	0.13735 15	-0.02130 05	0.87
0.14	-0.03732 40	0.91177 20	0.14842 80	-0.02287 60	0.86
0.15	-0.03931 25	0.90418 75	0.15956 25	-0.02443 75	0.85
0.16	-0.04121 60	0.89644 80	0.17075 20	-0.02598 40	0.84
0.17	-0.04303 55	0.88855 65	0.18199 35	-0.02751 45	0.83
0.18	-0.04477 20	0.88051 60	0.19328 40	-0.02902 80	0.82
0.19	-0.04642 65	0.87232 95	0.20462 05	-0.03052 35	0.81
0.20	-0.04800 00	0.86400 00	0.21600 00	-0.03200 00	0.80
0.21	-0.04949 35	0.85553 05	0.22741 95	-0.03345 65	0.79
0.22	-0.05090 80	0.84692 40	0.23887 60	-0.03489 20	0.78
0.23	-0.05224 45	0.83818 35	0.25036 65	-0.03630 55	0.77
0.24	-0.05350 40	0.82931 20	0.26188 80	-0.03769 60	0.76
0.25	-0.05468 75	0.82031 25	0.27343 75	-0.03906 25	0.75
0.26	-0.05579 60	0.81118 80	0.28501 20	-0.04040 40	0.74
0.27	-0.05683 05	0.80194 15	0.29660 85	-0.04171 95	0.73
0.28	-0.05779 20	0.79257 60	0.30822 40	-0.04300 80	0.72
0.29	-0.05868 15	0.78309 45	0.31985 55	-0.04426 85	0.71
0.30	-0.05950 00	0.77350 00	0.33150 00	-0.04550 00	0.70
0.31	-0.06024 85	0.76379 55	0.34315 45	-0.04670 15	0.69
0.32	-0.06092 80	0.75398 40	0.35481 60	-0.04787 20	0.68
0.33	-0.06153 95	0.74406 85	0.36648 15	-0.04901 05	0.67
0.34	-0.06208 40	0.73405 20	0.37814 80	-0.05011 60	0.66
0.35	-0.06256 25	0.72393 75	0.38981 25	-0.05118 75	0.65
0.36	-0.06297 60	0.71372 80	0.40147 20	-0.05222 40	0.64
0.37	-0.06332 55	0.70342 65	0.41312 35	-0.05322 45	0.63
0.38	-0.06361 20	0.69303 60	0.42476 40	-0.05418 80	0.62
0.39	-0.06383 65	0.68255 95	0.43639 05	-0.05511 35	0.61
0.40	-0.06400 00	0.67200 00	0.44800 00	-0.05600 00	0.60
0.41	-0.06410 35	0.66136 05	0.45958 95	-0.05684 65	0.59
0.42	-0.06414 80	0.65064 40	0.47115 60	-0.05765 20	0.58
0.43	-0.06413 45	0.63985 35	0.48269 65	-0.05841 55	0.57
0.44	-0.06406 40	0.62899 20	0.49420 80	-0.05913 60	0.56
0.45	-0.06393 75	0.61806 25	0.50568 75	-0.05981 25	0.55
0.46	-0.06375 60	0.60706 80	0.51713 20	-0.06044 40	0.54
0.47	-0.06352 05	0.59601 15	0.52853 85	-0.06102 95	0.53
0.48	-0.06323 20	0.58489 60	0.53990 40	-0.06156 80	0.52
0.49	-0.06289 15	0.57372 45	0.55122 55	-0.06205 85	0.51
0.50	-0.06250 00	0.56250 00	0.56250 00	-0.06250 00	0.50
	$A_2$	$A_1$	$A_0$	$A_{-1}$	$p$