

$$f(x) = 1/(1+x^2)$$

Natural Spline				
j	p_i''	x	p(x)	f(x)
1	0	-5	0.0384615	0.0384615
2	0.0164021	-4.9	0.0402271	0.039984
3	0.0592785	-4.8	0.0420091	0.0415973
4	0.099425	-4.7	0.0438238	0.0433088
5	0.743021	-4.6	0.0456878	0.0451264
6	-1.87151	-4.5	0.0476174	0.0470588
7	0.743021	-4.4	0.049629	0.0491159
8	0.099425	-4.3	0.051739	0.0513084
9	0.0592785	-4.2	0.0539638	0.0536481
10	0.0164021	-4.1	0.0563199	0.0561482
11	0	-4	0.0588235	0.0588235
	
		-2	0.2	0.2
		-1.9	0.214907	0.21692
		-1.8	0.231451	0.235849
		-1.7	0.250277	0.257069
		-1.6	0.272028	0.280899
		-1.5	0.297347	0.307692
		-1.4	0.326879	0.337838
		-1.3	0.361266	0.371747
		-1.2	0.401153	0.409836
		-1.1	0.447183	0.452489
		-1	0.5	0.5
		-0.9	0.559704	0.552486
		-0.8	0.624223	0.609756
		-0.7	0.690944	0.671141
		-0.6	0.757251	0.735294
		-0.5	0.820531	0.8
		-0.4	0.878167	0.862069
		-0.3	0.927547	0.917431
		-0.2	0.966056	0.961538
		-0.1	0.991078	0.990099
		0.0	1	1

