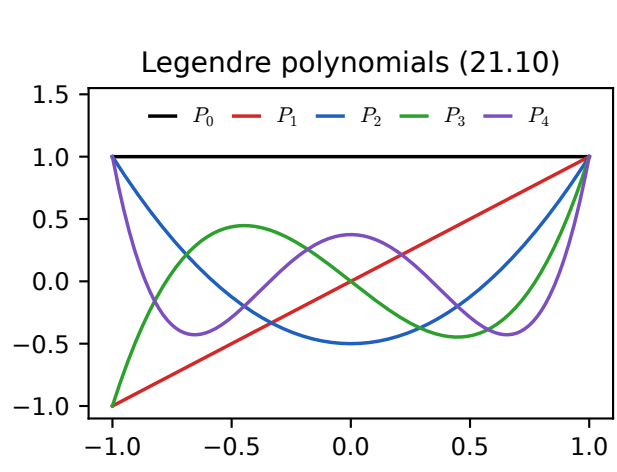
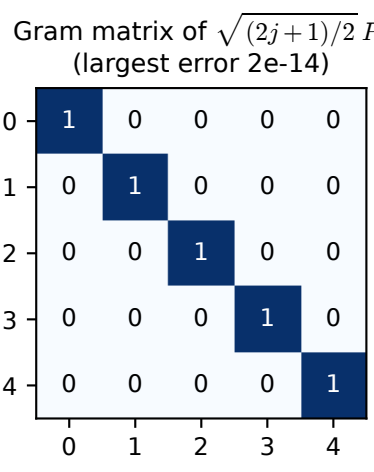

Legendre polynomials (21.10)
P_0
P_1
P_2
P_3
P_4
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.0
−0.5
0.0
0.5
1.0


Gram matrix of $\sqrt{(2j+1)/2}\,P_j$
(largest error 2e-14)
0
1
2
3
4
1 0 0 0 0
0 1 0 0 0
0 0 1 0 0
0 0 0 1 0
0 0 0 0 1
0
1
2
3
4