

§ 18.4(i). Graphs

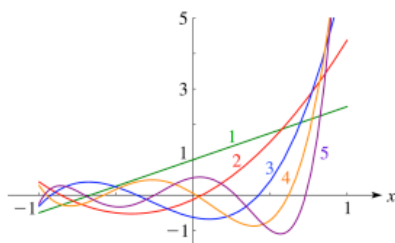
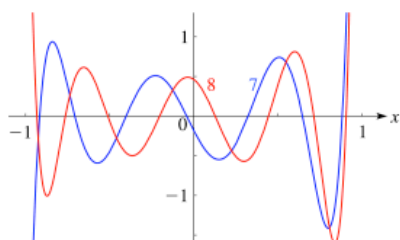


Figure 18.4.1. Jacobi polynomials $P_n^{(1.5, -0.5)}(x)$, $n = 1, 2, 3, 4, 5$.



Jacobi polynomials $P_n^{(1.25, 0.75)}(x)$, $n = 7, 8$. This illustrates extrema of a Jacobi polynomial; see (18.14.16). See also Askey (1990).

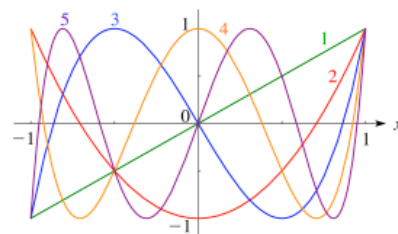
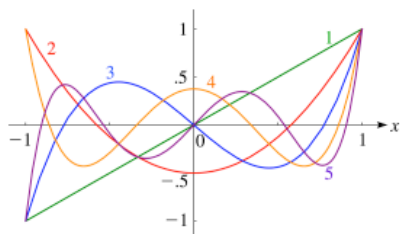


Figure 18.4.3. Chebyshev polynomials $T_n(x)$, $n = 1, 2, 3$



3.4.4. Legendre polynomials $P_n(x)$, $n = 1, 2, 3, 4, 5$.

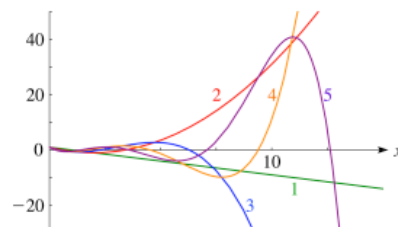
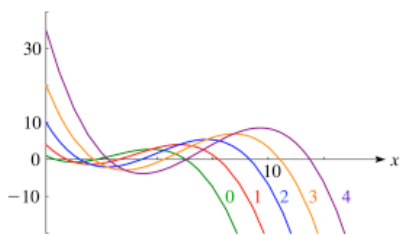


Figure 18.4.5. Laguerre polynomials $L_n(x)$, $n = 1, 2, 3$,



4.6. Laguerre polynomials $L_3^{(\alpha)}(x)$, $\alpha = 0, 1, 2, 3, 4$.

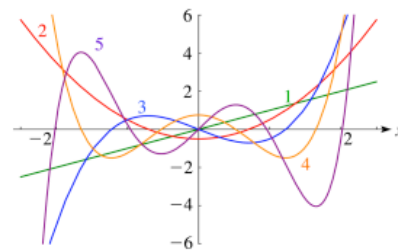


Figure 18.4.7. Monic Hermite polynomials $h_n(x) = 2^{-n} H_n(x)$,



<http://dlmf.nist.gov/18.4>