

$$\exp(-1/(1-x)^2)$$

Actual Function

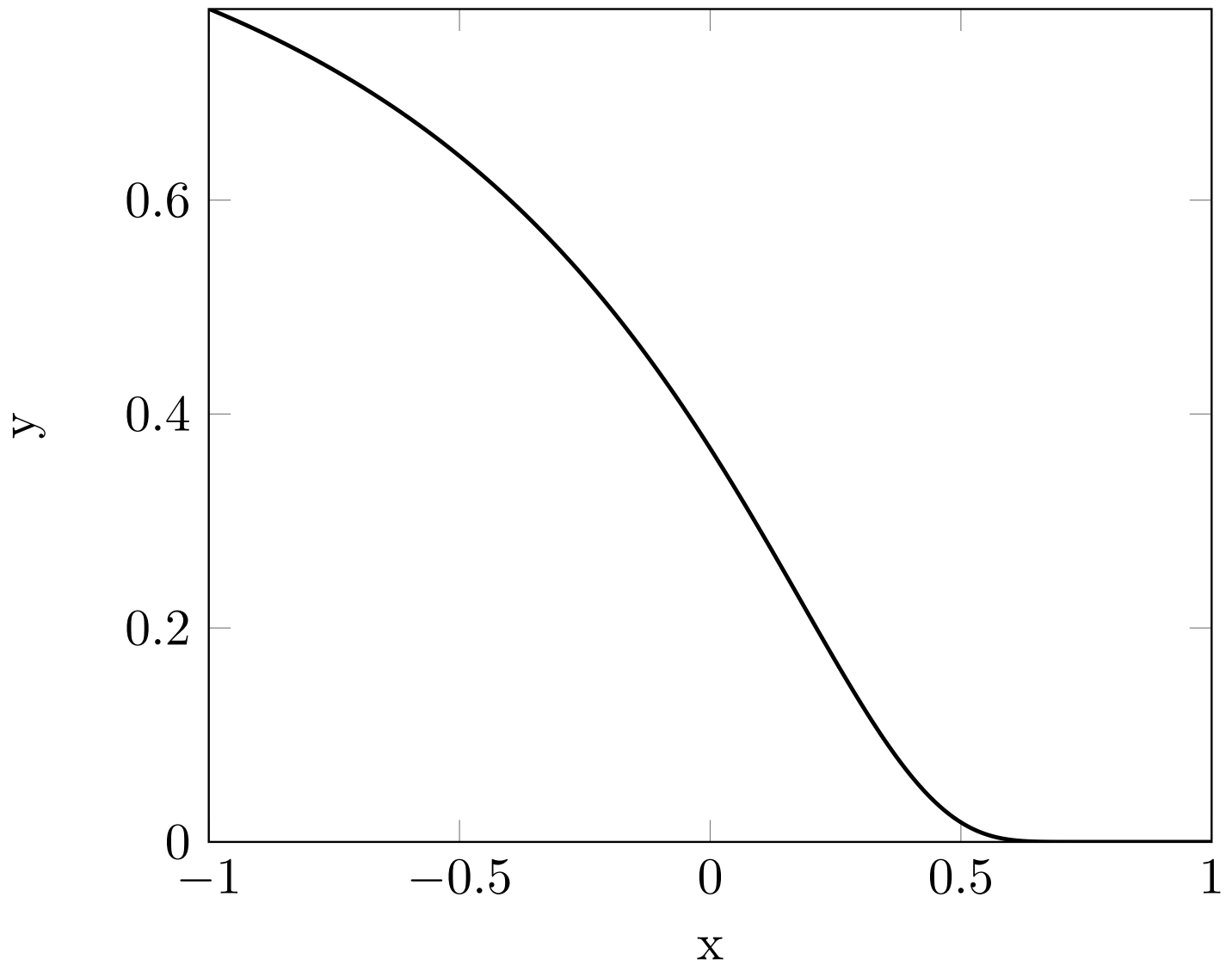


Figure 1: Actual function

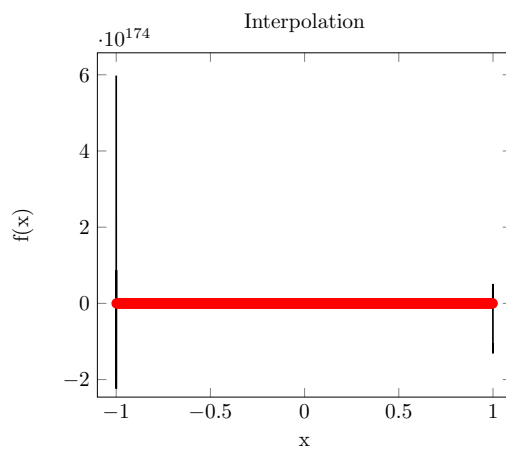
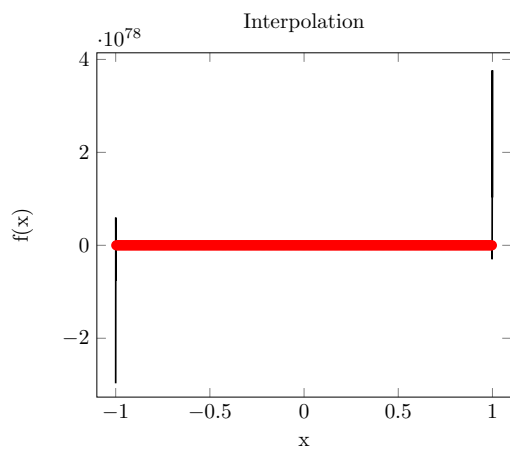
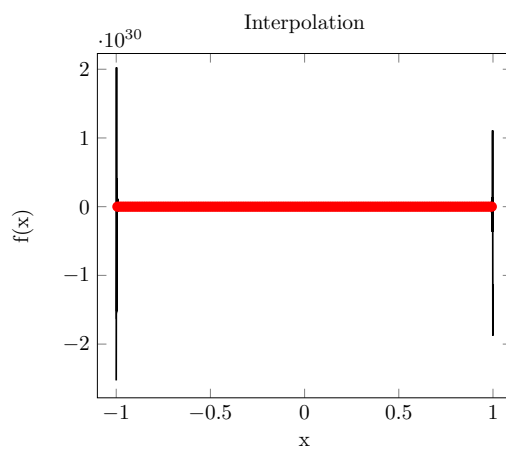
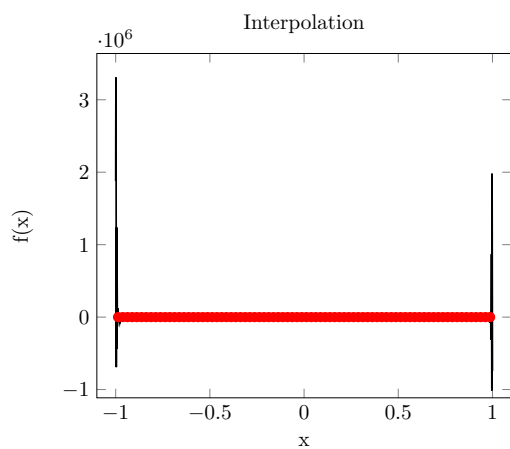
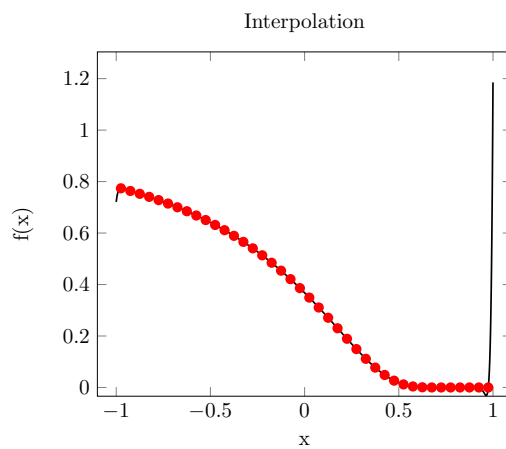
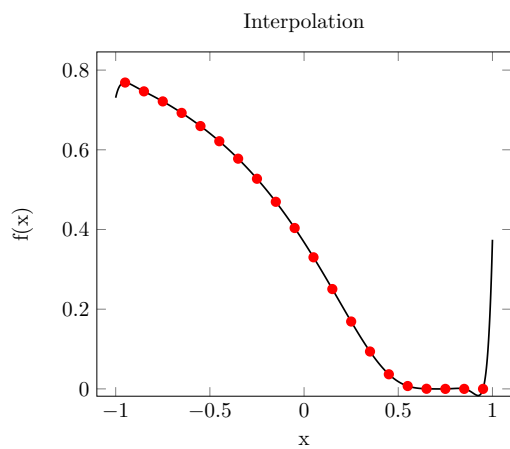
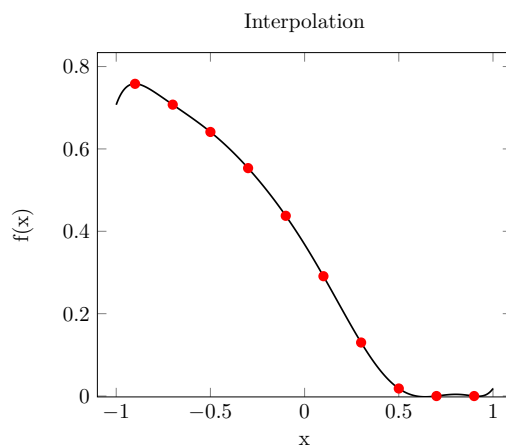
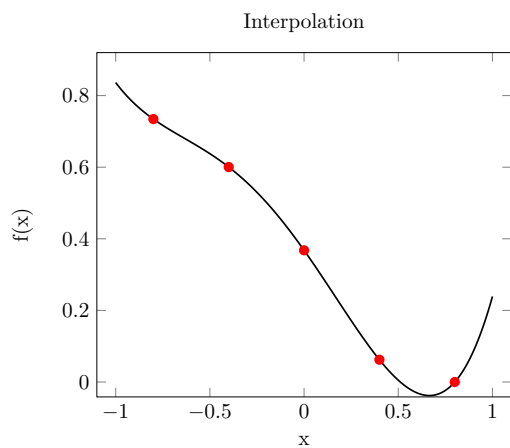
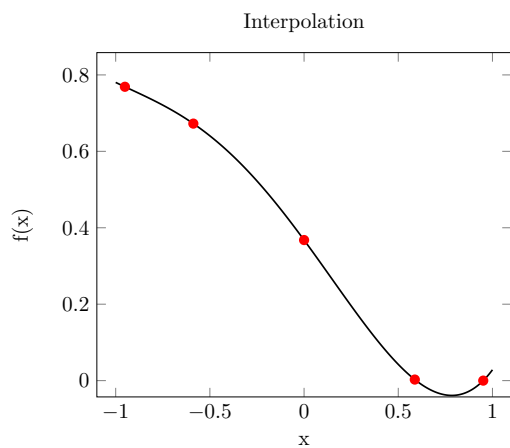
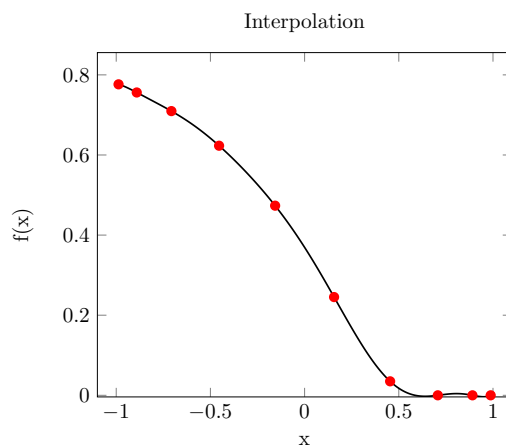


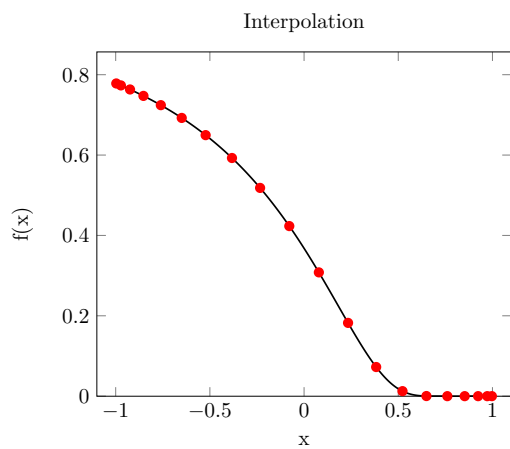
Figure 2: Chebyshev interpolation



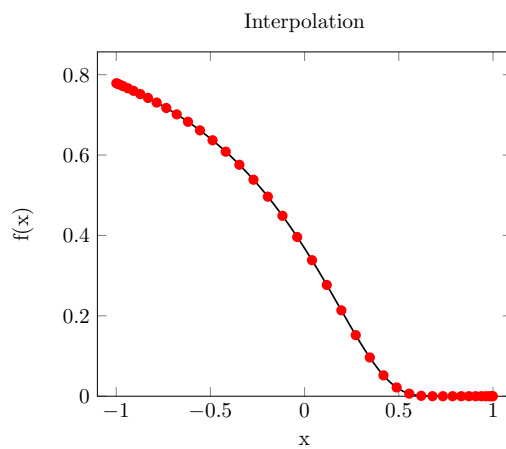
(a) 5 nodes



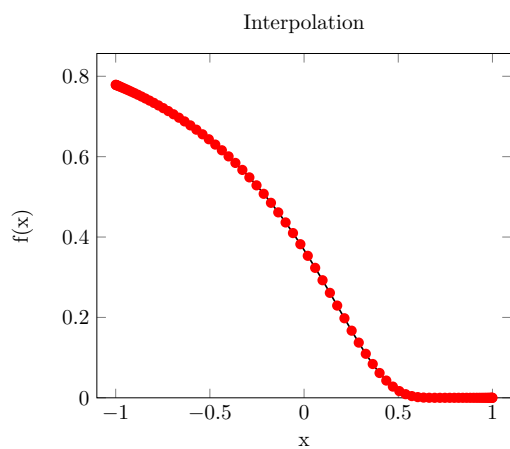
(b) 10 nodes



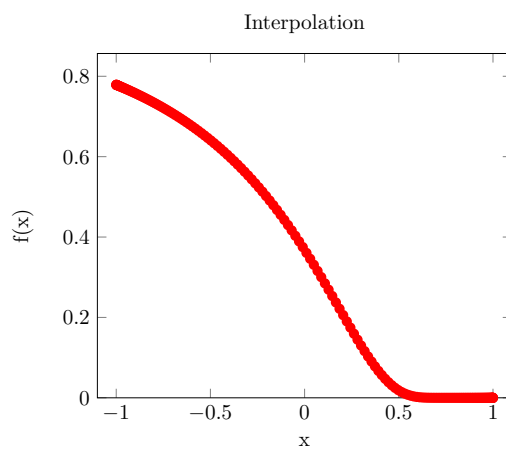
(c) 20 nodes



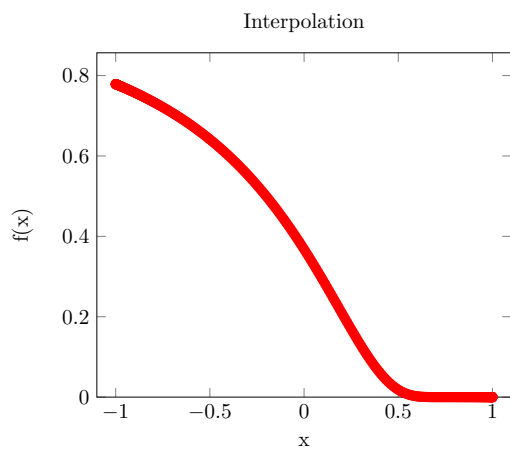
(d) 40 nodes



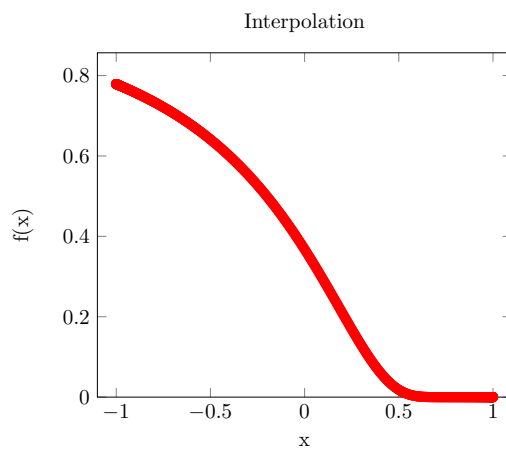
(e) 80 nodes



(f) 160 nodes



(g) 320 nodes



(h) 640 nodes

Figure 3: Chebyshev interpolation