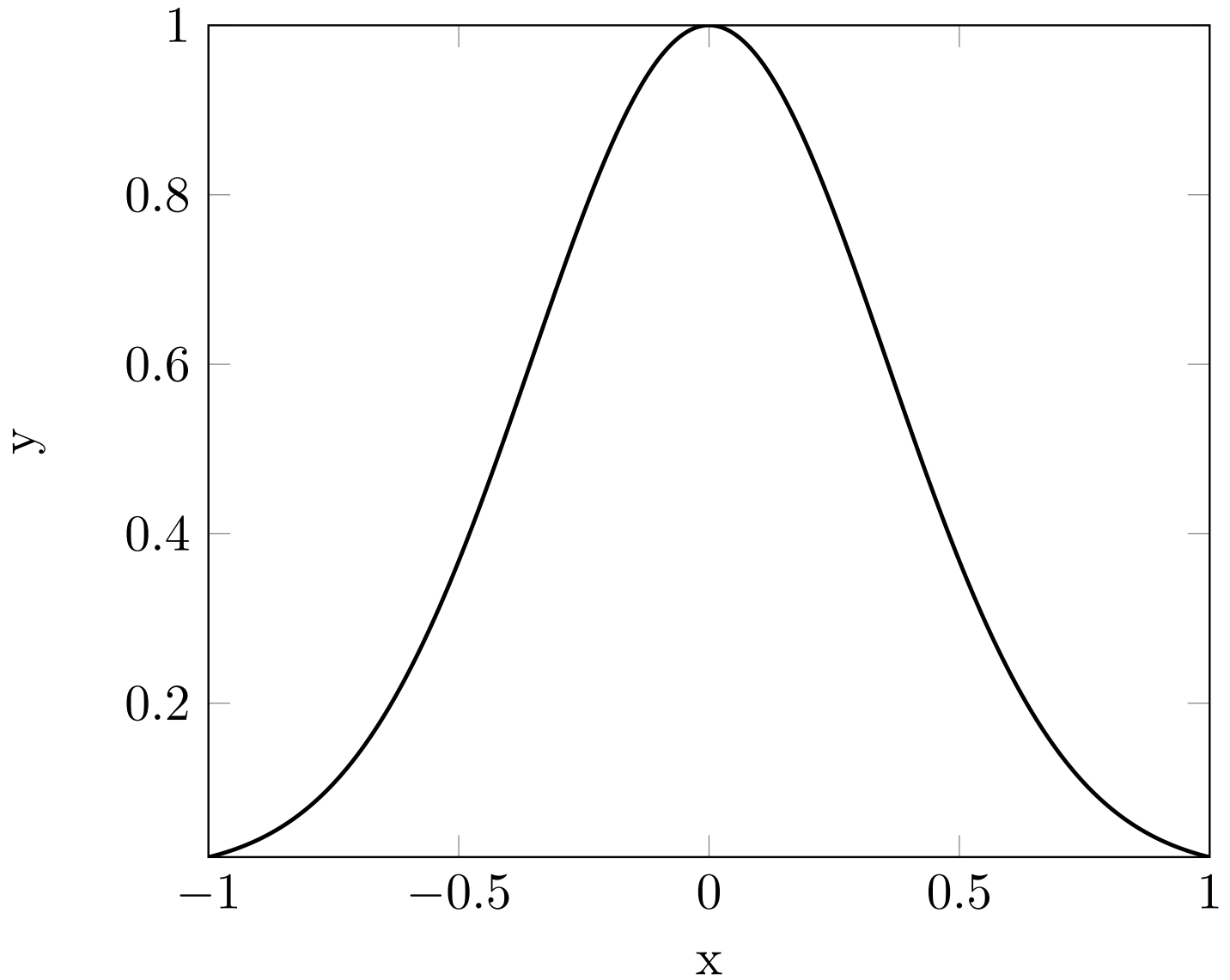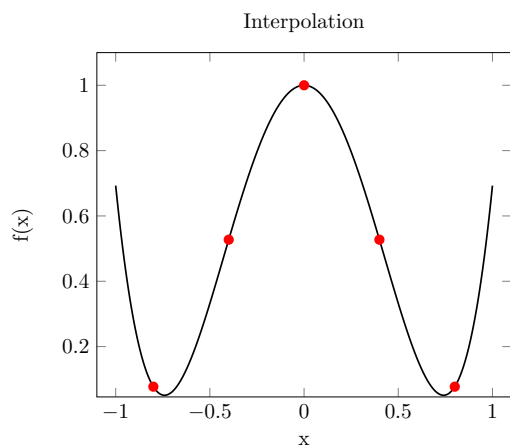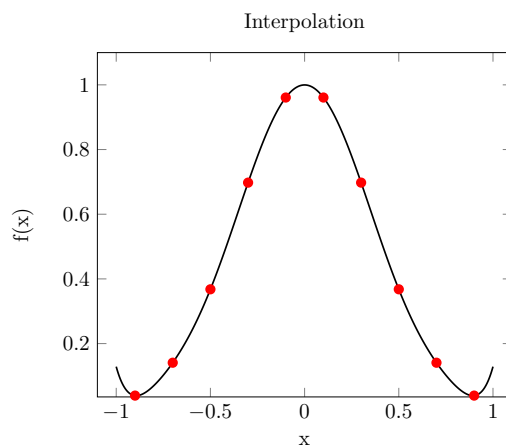$$\exp(-4x^2)$$

Actual Function
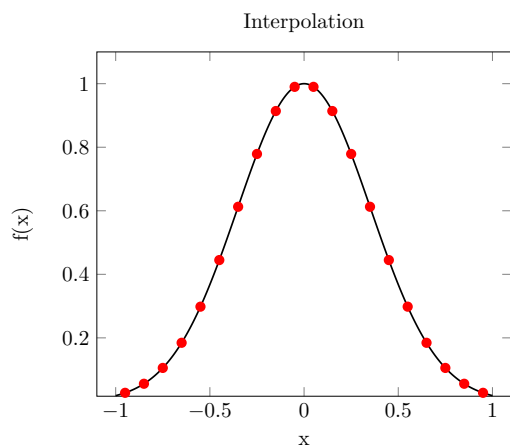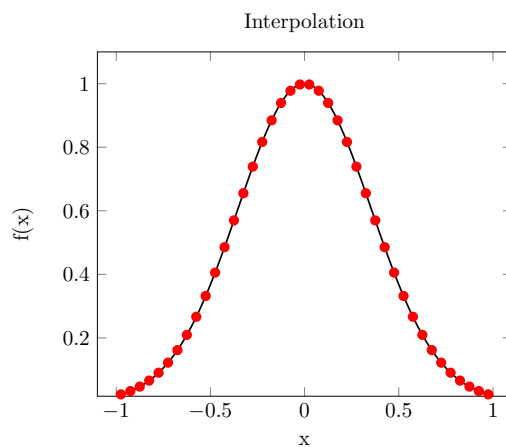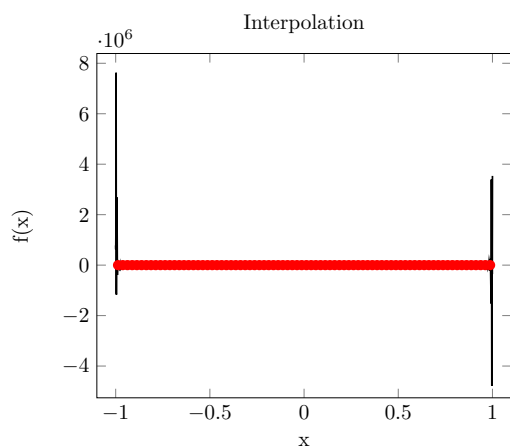

Figure 1: Actual function

(a) 5 nodes

(b) 10 nodes
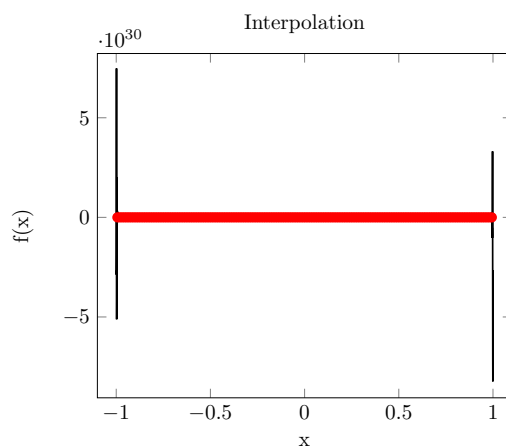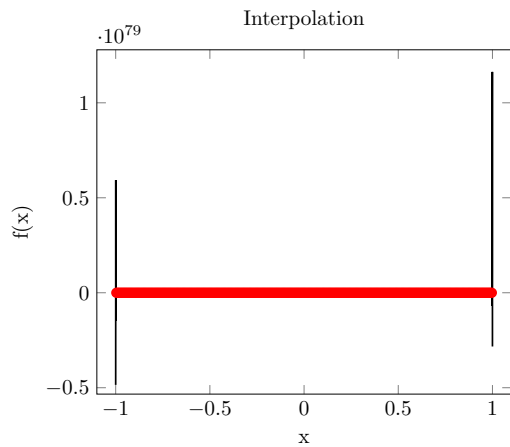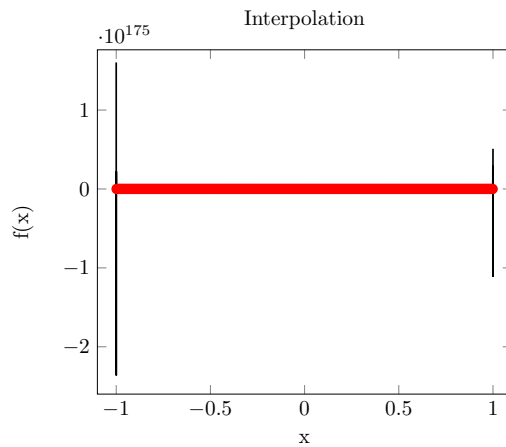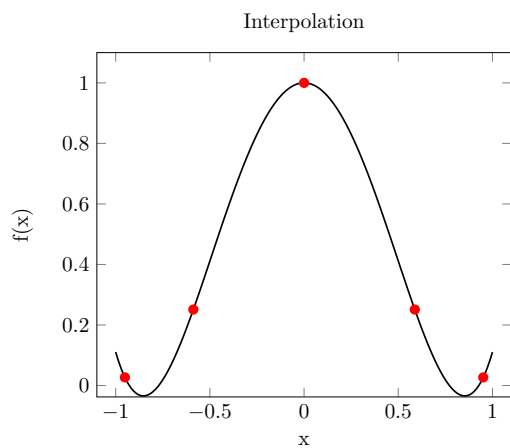
(c) 20 nodes

(d) 40 nodes

(e) 80 nodes

(f) 160 nodes

(g) 320 nodes
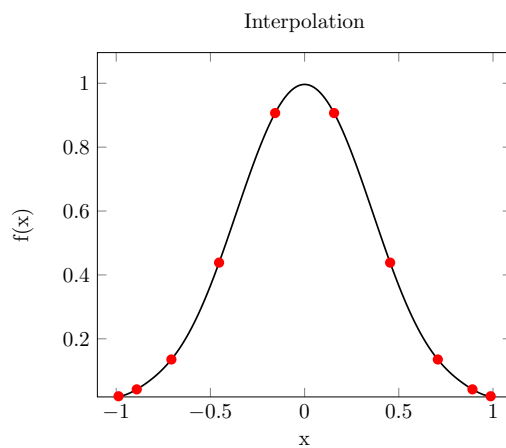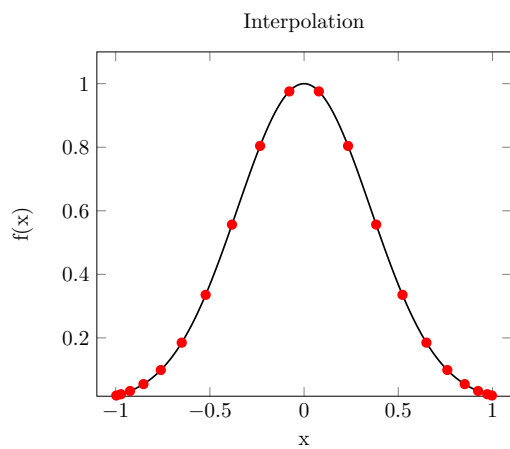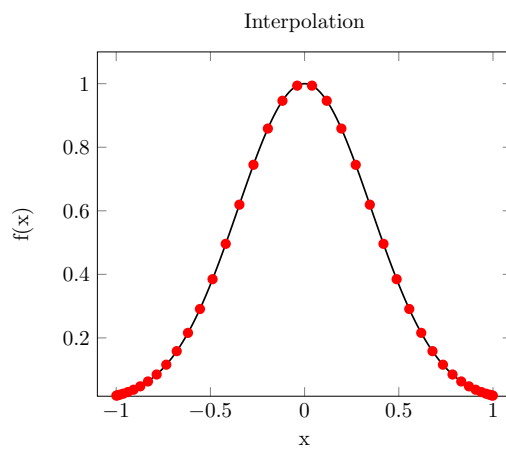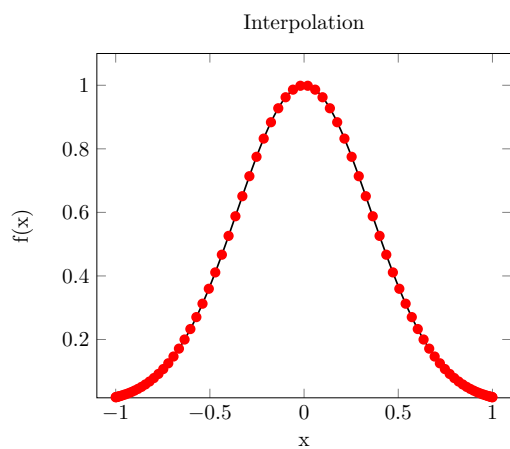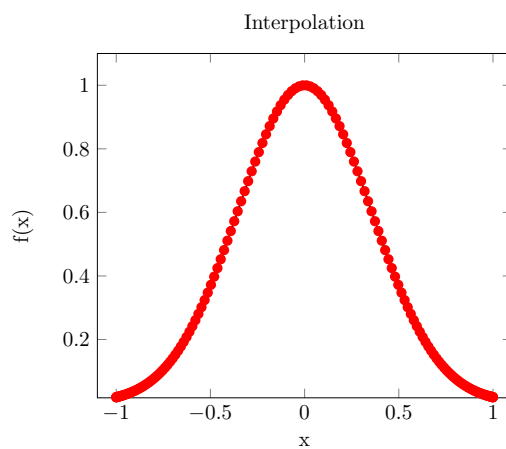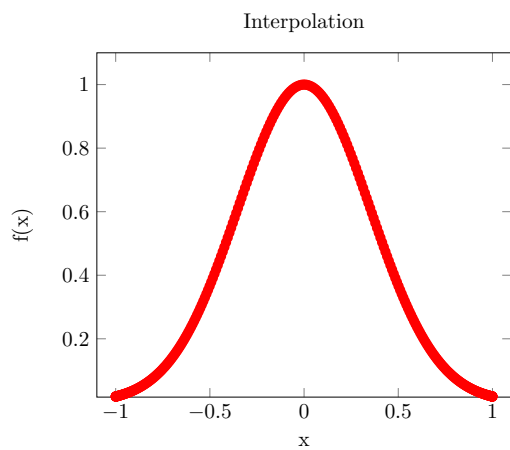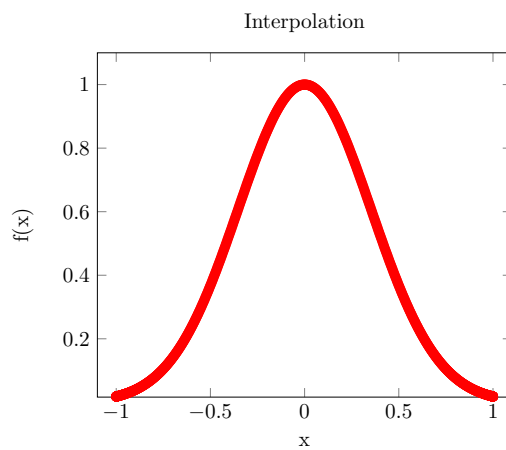
(h) 640 nodes

Figure 2: Chebyshev interpolation

Figure 3: Chebyshev interpolation