

$$\frac{1}{\log(0.5 |x|)}$$

Actual Function

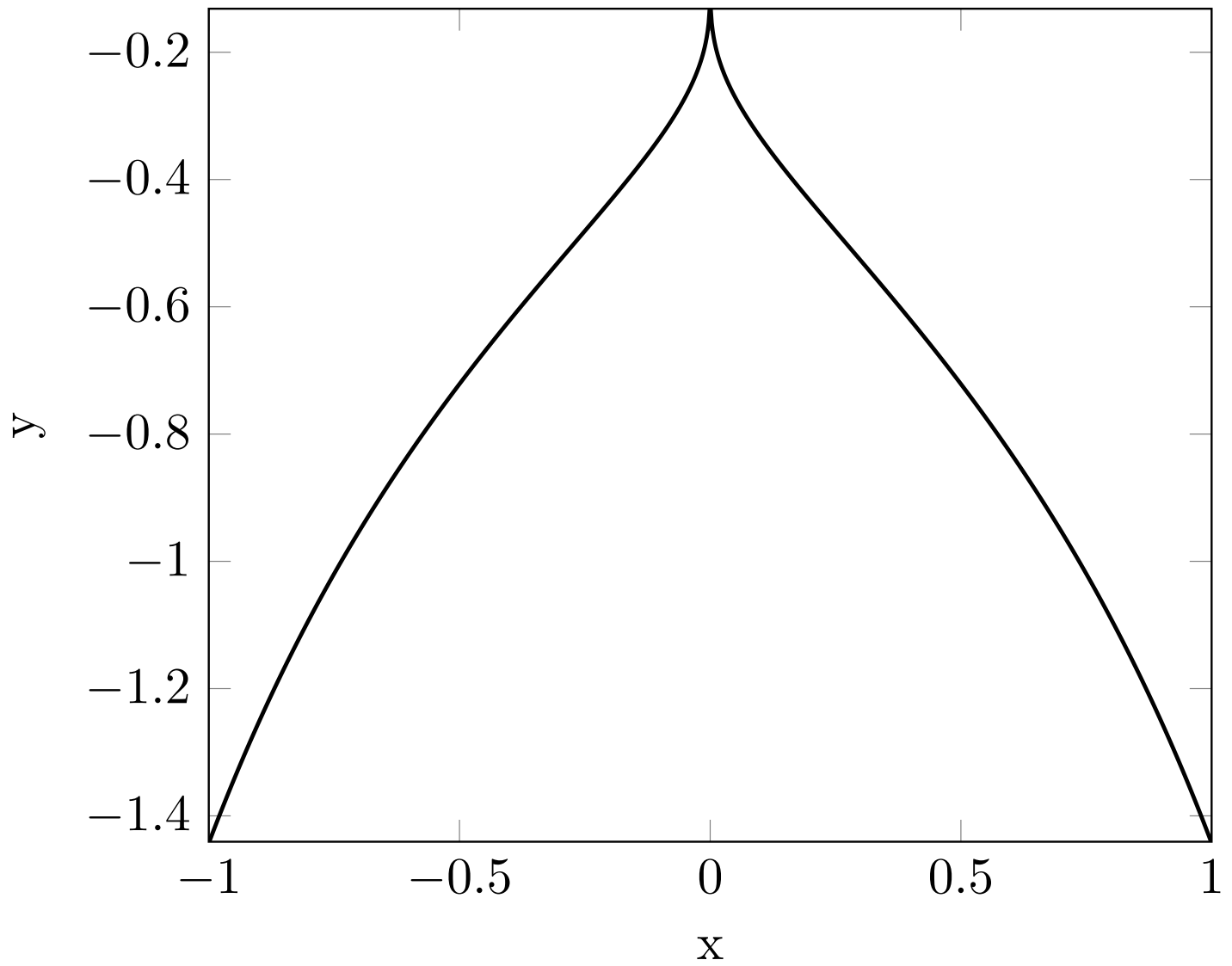
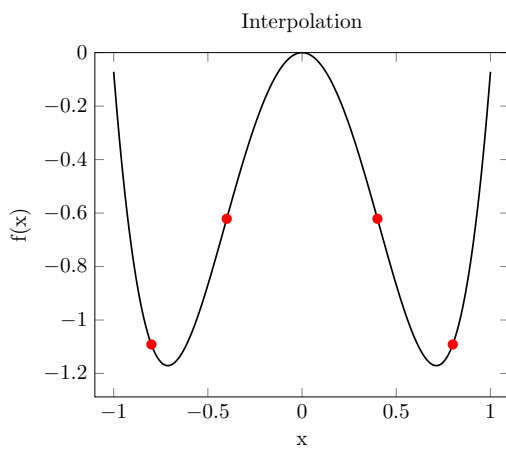
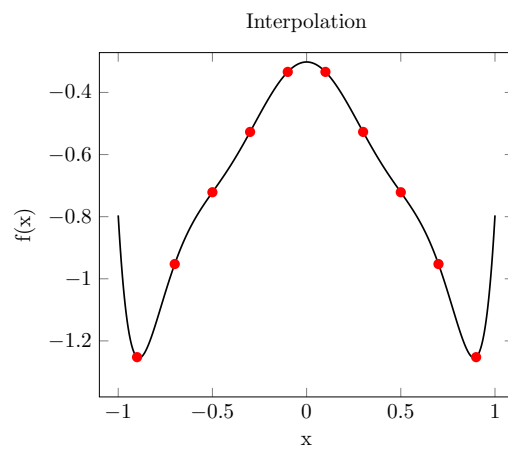


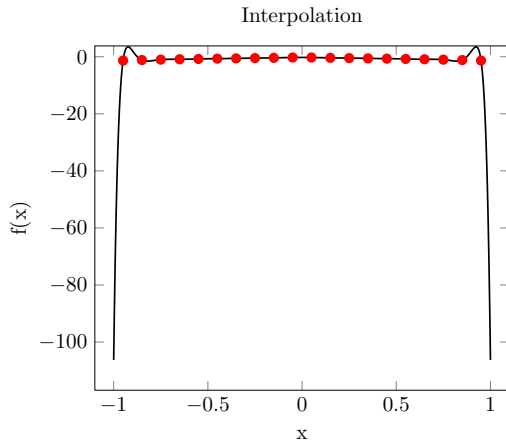
Figure 1: Actual function



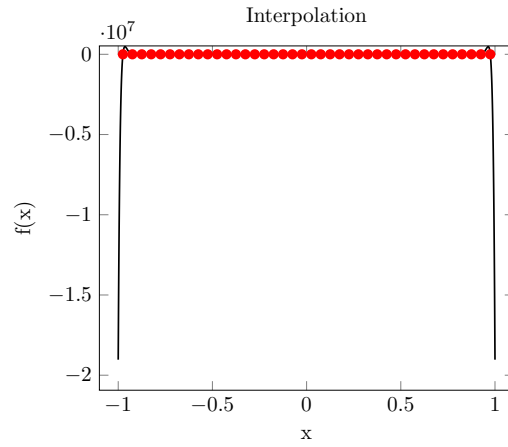
(a) 5 nodes



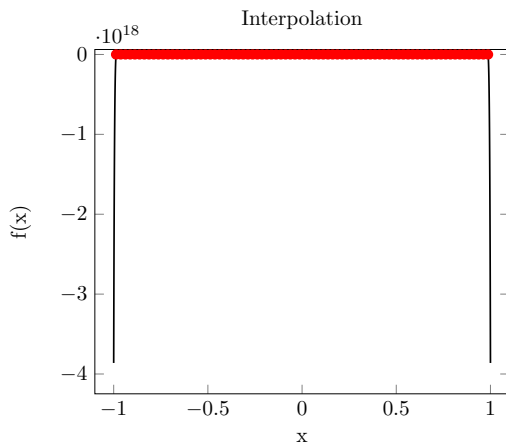
(b) 10 nodes



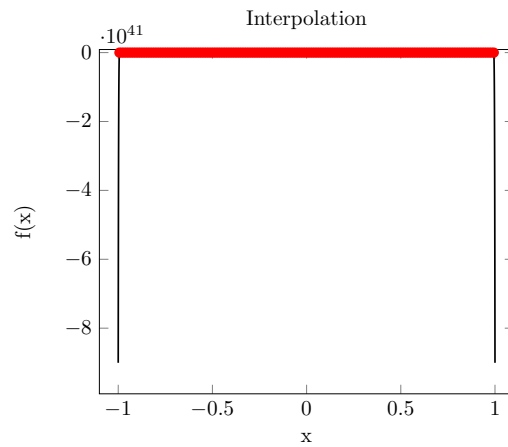
(c) 20 nodes



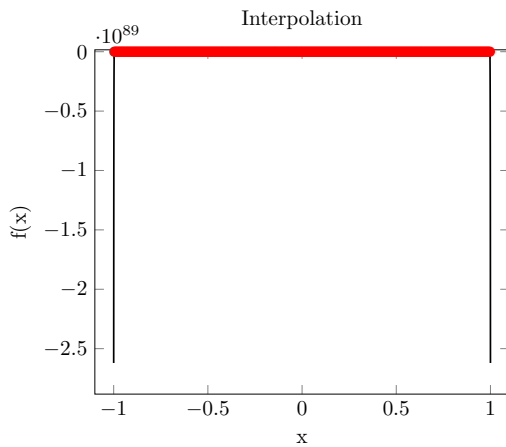
(d) 40 nodes



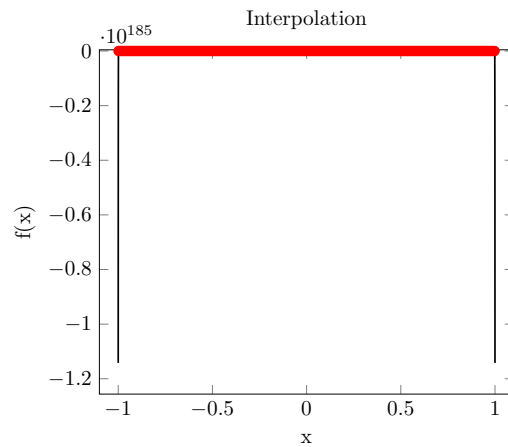
(e) 80 nodes



(f) 160 nodes

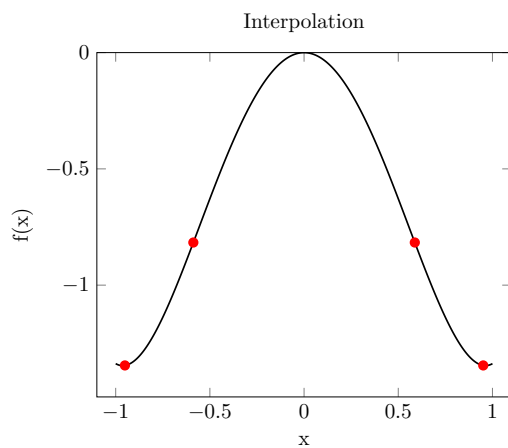


(g) 320 nodes

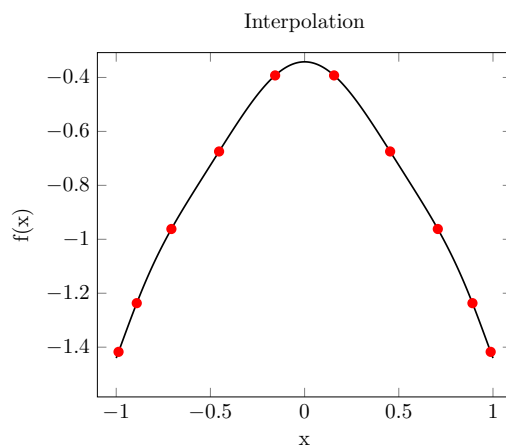


(h) 640 nodes

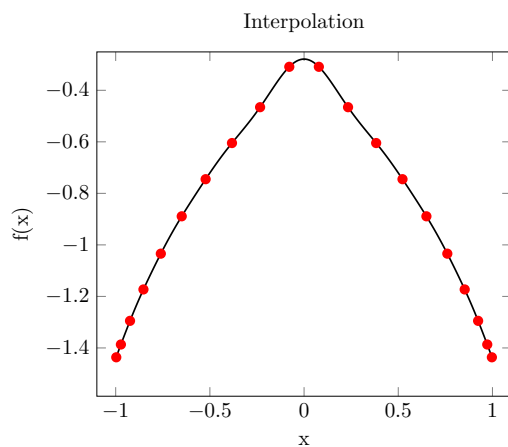
Figure 2: Chebyshev interpolation



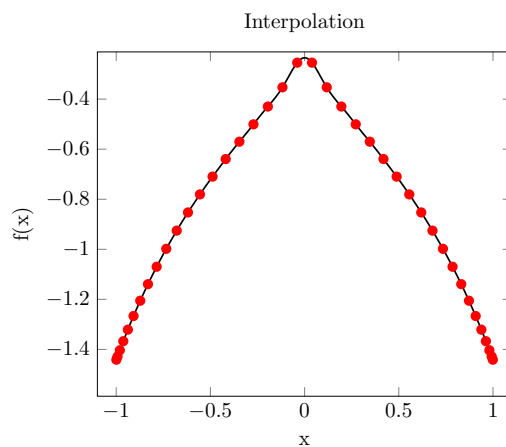
(a) 5 nodes



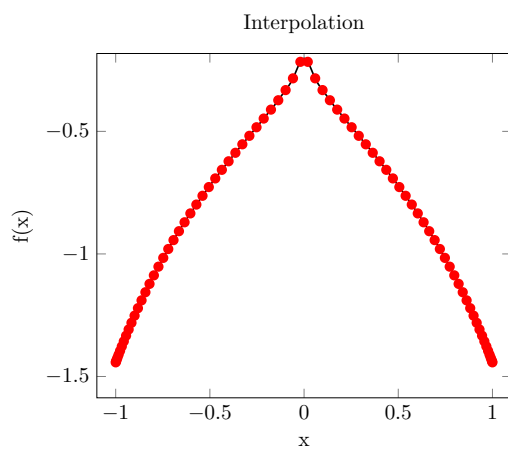
(b) 10 nodes



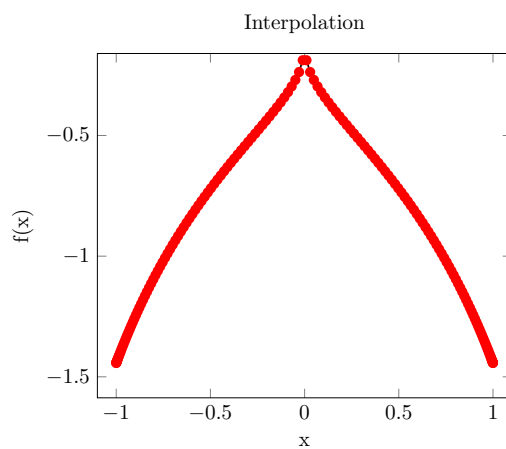
(c) 20 nodes



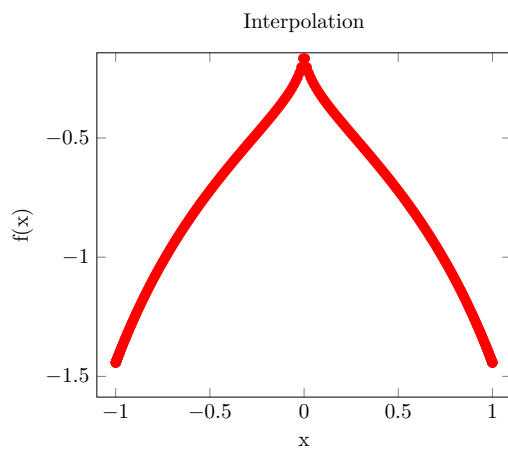
(d) 40 nodes



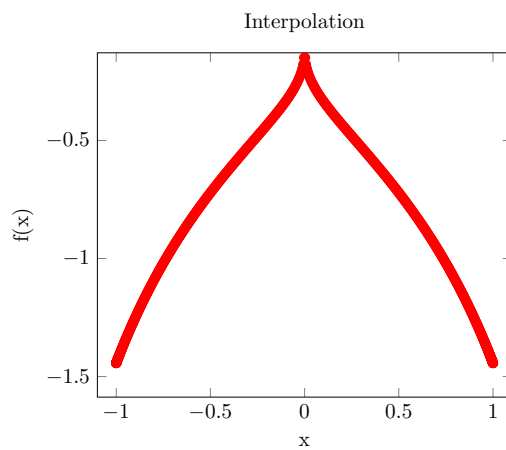
(e) 80 nodes



(f) 160 nodes



(g) 320 nodes



(h) 640 nodes

Figure 3: Chebyshev interpolation