

Figure 1: Original function:  $f(x) = \frac{\sin x}{x}$ .

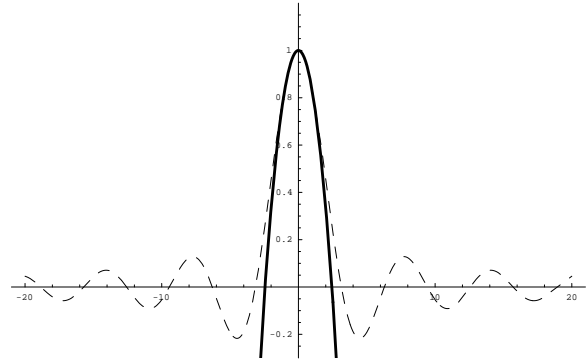


Figure 2: Approximation by the Taylor polynomial of order 2

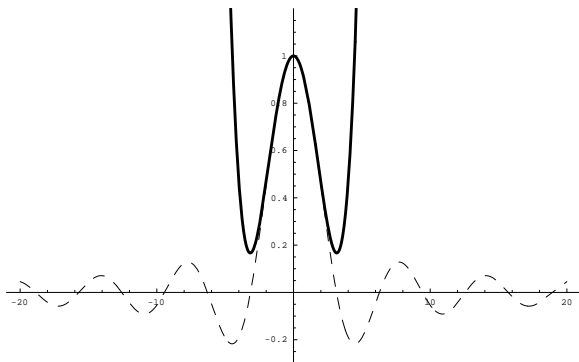


Figure 3: Approximation by the Taylor polynomial of order 4

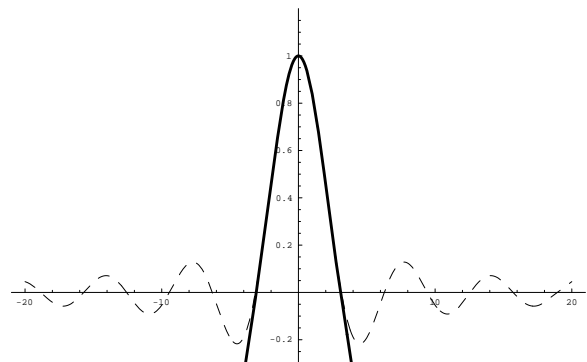


Figure 4: Approximation by the Taylor polynomial of order 6

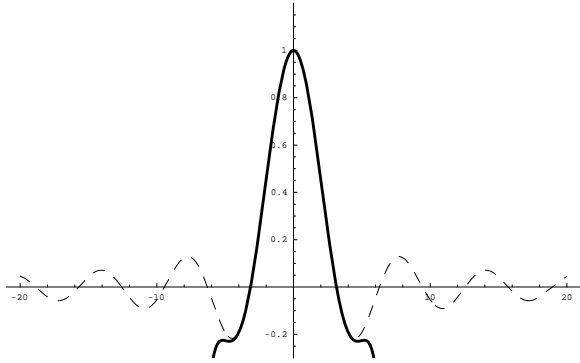


Figure 5: Approximation by the Taylor polynomial of order 10

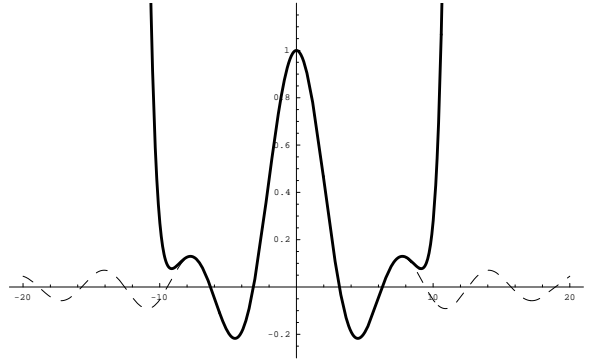


Figure 6: Approximation by the Taylor polynomial of order 20

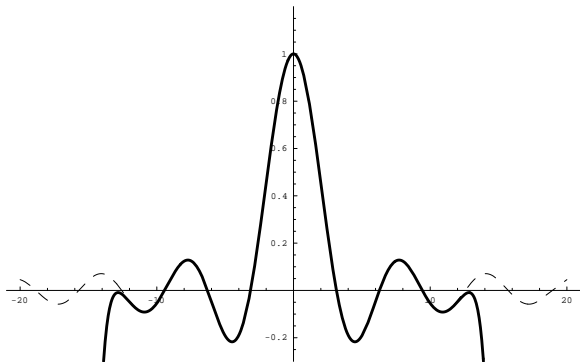


Figure 7: Approximation by the Taylor polynomial of order 30

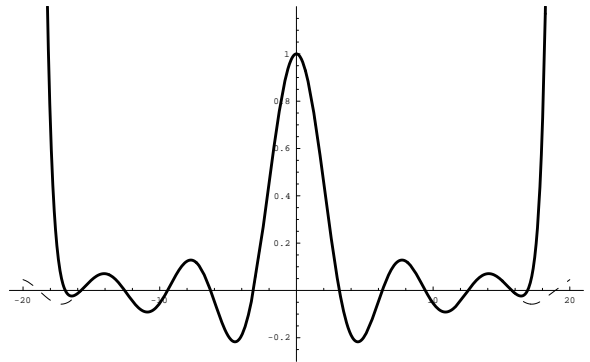


Figure 8: Approximation by the Taylor polynomial of order 40