

Lab 8

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3.2:

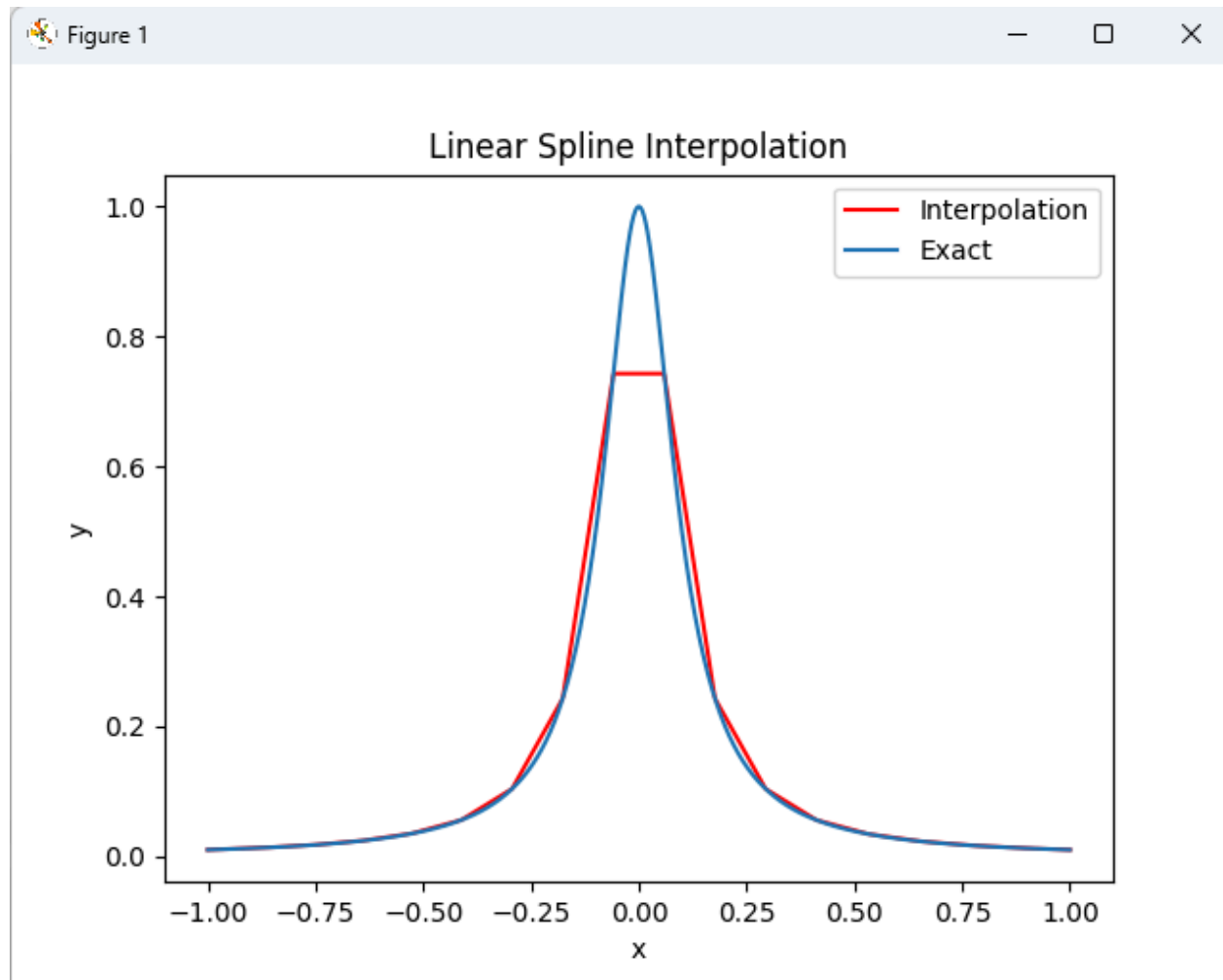


Figure 1: Linear spline interpolation.

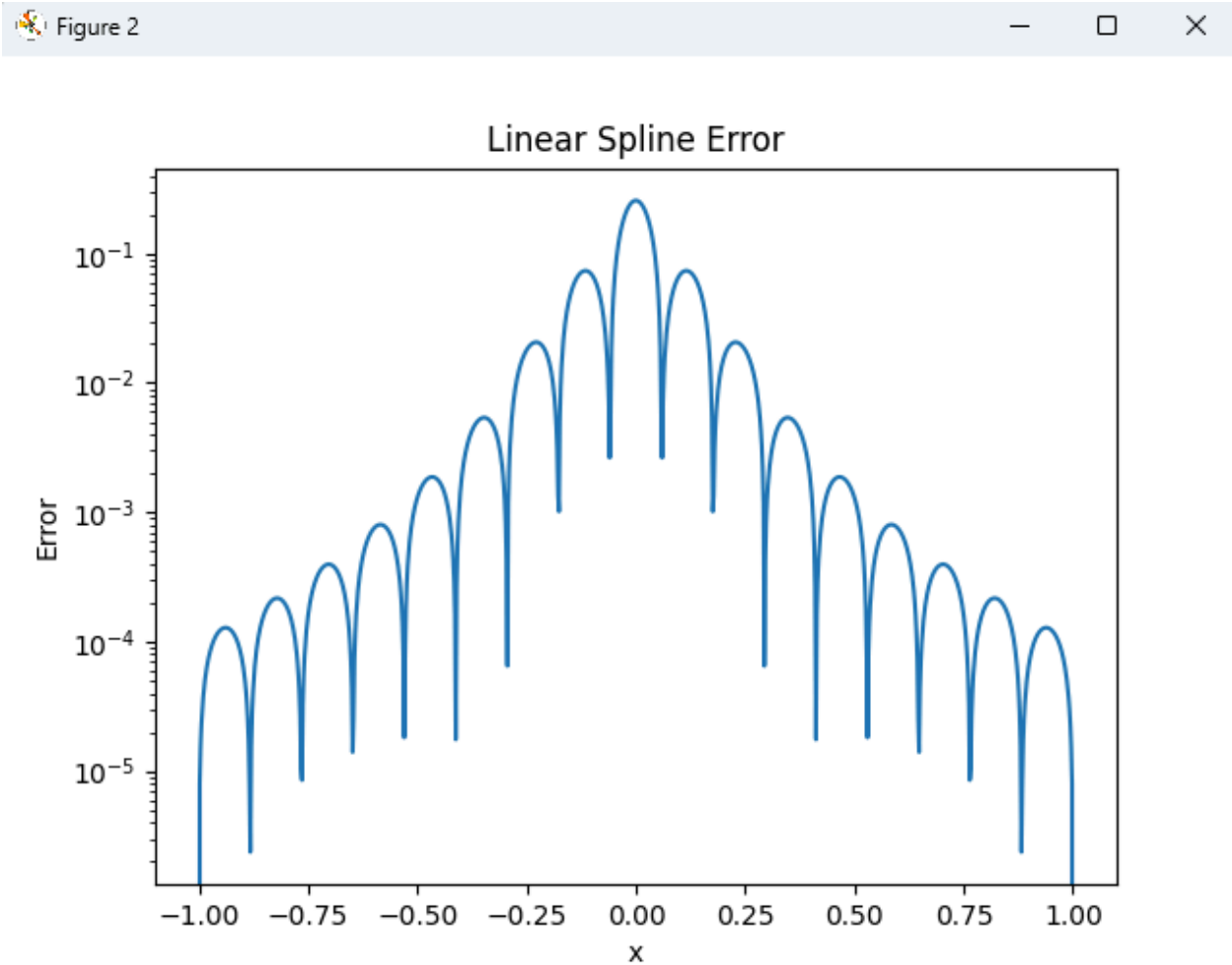


Figure 2: Linear spline interpolation error. The error gets worse around $x = 0$.

Linear splines performed quite well. I would say it performed as well as Newton Divided Differences and Lagrange interpolation. However, it seems to perform worse around the endpoints than those two. It seems to perform slightly better than monomial expansion. I used $N = 18$ for these plots.

3.4: