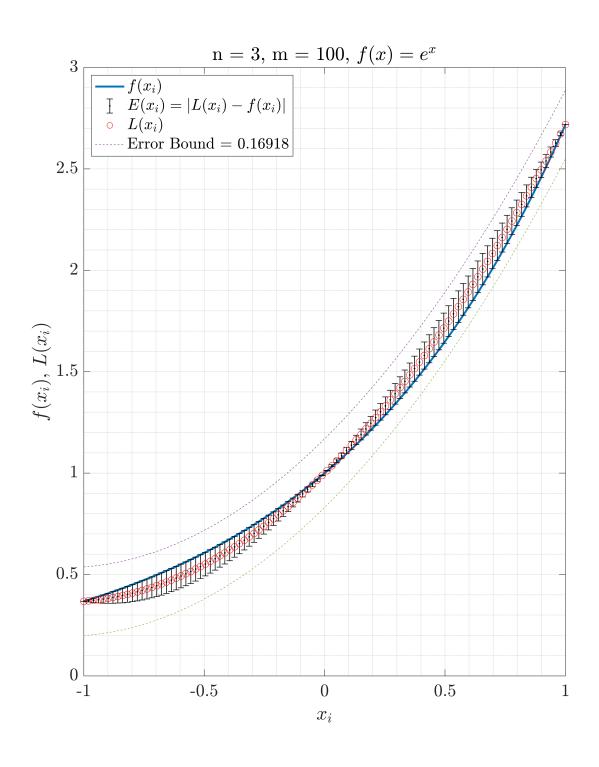
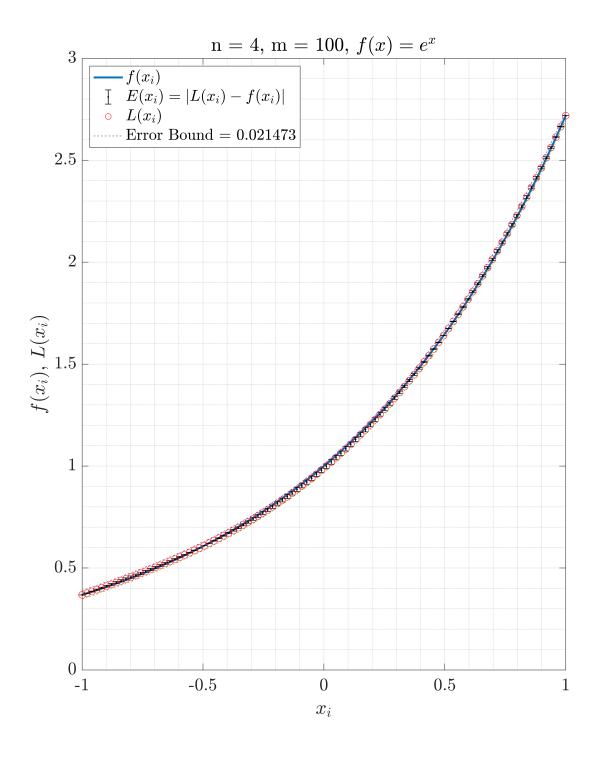
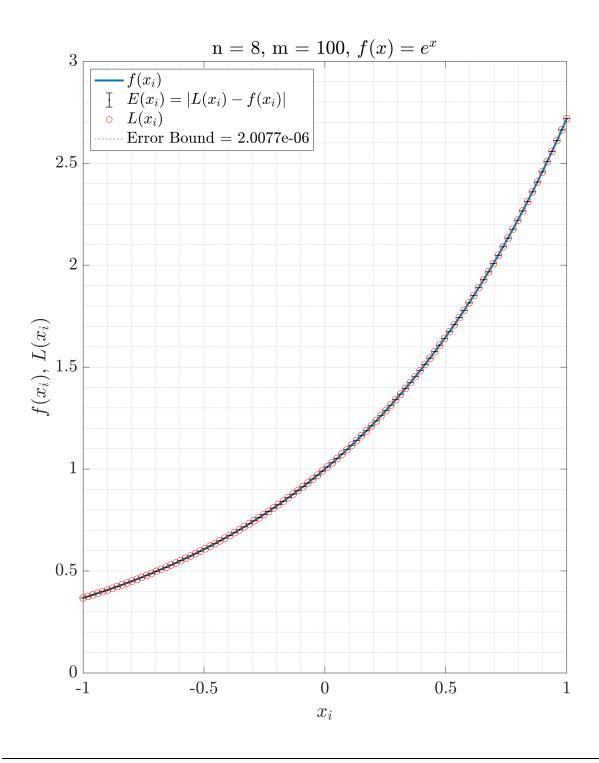
OutLab 2: Lagrange Interpolation Polynomials Arjun Earthperson

$$F(x) = \exp(x), m = 1000, n = 3$$







The level of agreement increases drastically as n increases. How n=3, the interpolation is not good enough to approximate  $\exp(x)$ , but in all cases, the error is much lower than the expected error bound. The trend improves as n=4. For n=8, the interpolation is in very good agreement but may not represent realistic models. n=4 is the best fit here.