Let \( f(x) = |x| \) be considered on \([-1, 1]\). Let \(-1, -0.5, 0, 0.5, 1\) be the nodes of interpolation.

(a) Write the Lagrange interpolation polynomial.
(b) Write the Newton interpolation polynomial.
(c) Simplify your answers in (a) and (b).
(d) Estimate the interpolation error on \([-1, 1]\).
(e) How would you modify the placement of nodes to make the error smaller?