

CP.1.4.7, Sauer3

Consider the function

$$f(x) = e^{\sin^3 x} + x^6 - 2x^4 - x^3 - 1$$

on the interval $[-2, 2]$. Plot the function on the interval, and find all three roots to six correct decimal places. Determine which roots converge quadratically, and find the multiplicity of the roots that converge linearly.