

MA 122: Reading Assignment 2

Read “Finding an Error Bound” and examples 1 and 2 in Section 10.4.

Let $f(x) = e^{-x}$. Find an error bound for the accuracy of $P_5(x)$ for $x \in [0, 1]$ where $P_5(x)$ is the 5th degree Taylor polynomial for $f(x)$ based at $x = 0$.