

MATH 321-01 (151)

HW # 4

Due Oct. 22, 2015

Construct a natural cubic spline to approximate $f(x) = \cos \pi x$ by using the values given by $f(x)$ at $x = 0, 0.25, 0.5, 0.75$ and 1.0 . Approximate $f(x)$ at $x = 0.8$ and calculate the actual error.