

UMC 202
PROBLEM SET 1

- (1) Use the bisection method to find the solutions accurate to within $1e-4$ for $x^3 - 7x^2 + 14x - 6 = 0$ on each interval
 - (a) $[0, 1]$
 - (b) $[1, 3.2]$
 - (c) $[3.2, 4]$
- (2) Use fixed point iteration method to determine a solution accurate to within 10^{-2} for $x^4 - 3x^2 - 3$ on $[1, 2]$. Use initial guess $p_0 = 1$.