

(Fixed-Point Iteration). All numerical answers should be rounded to 7-digit floating-point numbers. Given a real number  $z$ , the symbol  $\tilde{z}$  denotes the result of rounding of  $z$  to a 7-digit floating point number.

Consider the polynomial

$$f(x) = x^4 - 0.99x - 1.21.$$

In what follows, we will to apply the Fixed-Point Iteration (FPI) method to approximate a unique root of the function  $f(x)$  in  $[1, 2]$ .

(i) (a) Show that

$$x^4 - 0.99x - 1.21 = 0 \iff x = \sqrt[4]{0.99x + 1.21}$$

for all  $x \in [1, 2]$ , thereby obtaining a reduction to a fixed-point problem for the (iteration) function

$$g(x) = \sqrt[4]{0.99x + 1.21}$$

on  $[1, 2]$ .

(b) Clearly, the function  $g(x)$  is strictly

on  $[1, 2]$ . Accordingly, for every  $x \in [1, 2]$ ,

$$g(\boxed{?_1}) \leq g(x) \leq g(\boxed{?_2}),$$

where

$\boxed{?_1} =$  $\text{ and } \boxed{?_2} =$

(please enter suitable points/numbers of the interval  $[1, 2]$ ) and

$g(\boxed{?_1}) \doteq$  $\text{ and } g(\boxed{?_2}) \doteq$

(c) Does the argument in (b) imply that the function  $g(x)$  takes the interval  $[1, 2]$  into itself?

# Guided Project 7 Fixed Point Iteration Answers

**Joseph Phillips**



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