

M373 SOLUTIONS TO 2013 EXAM PAPER

SOLUTION 1

(a)



There are only 2 roots in the interval $[1.5, 5]$ at 1.9 and 4.5 to 1 dp.

(b)

This iterative scheme simply rearranges $ax^2 + bx + c = 0$ by taking reciprocals.

For a contraction mapping on some interval $[a, b]$ we must have

- (i) $x \in [a, b] \Rightarrow g(x) \in [a, b]$
- (ii) $|g'(x)| \leq L < 1$ for all $x \in [a, b]$

Since $g(x)$ is a positive decreasing function on $[1.5, 2]$, with $g(1.5) = 1.99$ and $g(2) = 1.85$, then, for $x \in [1.5, 2]$, $g(x) \in [1.85, 1.99] \subseteq [1.5, 2]$. So condition (i) is satisfied.

Since $g'(x)$ is negative increasing on $[1.5, 2]$, with $g'(1.5) = -0.66$ and $g'(2) = 0$, then $|g'(x)| < 1$ on $[1.5, 2]$. So condition (ii) is satisfied.

Hence g is a contraction mapping on $[1.5, 2]$ and we are guaranteed to find a root in this interval for any $x_0 \in [1.5, 2]$.

(c) As $|g'(1.5)| \leq L = 0.66 > 0.5$ use the stopping criterion $|x_n - x_{n-1}| \leq 5 \times 10^{-5} = 0.000025$ for 4 dp accuracy.

n	x_n	e
0	1.9	
1	1.852048	-0.047952
2	1.857932	0.005883
3	1.857077	-0.000854
4	1.857199	0.00012171
5	1.857182	-0.00001739

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