

# 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  $|x_n - x_{n-1}| \leq 5 \times 10^{-6} = 0.000005$  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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