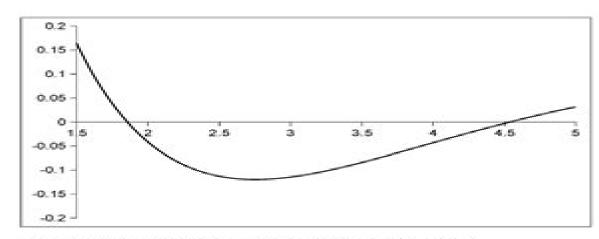
SOLUTION 1

(40)



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 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) $g'(x): \le L < 1$ 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): ≤ L = 0.66 > 0.5 use the stopping criterion = = × 5 × 10° = 0.000026 for 4 dp accuracy.

r	Xe	
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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