MTH603 - Numerical Analysis

Assignment No. 01

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Question No 1:

Solution:

**These have opposite sign so roof lie in between this interval.**

Here

**The formula of method of false position is**

**1st Iteration:**

**So the root lie between 1.0352 and 1.5.**

**2nd Iteration**

**3rd Iteration**

**Which is required root after four iterations.**

Question No 2:

Solution:

1st **Iteration**:

**By Newton Raphson Formula:**

**2nd Iteration:**

= −1.01695

**3rd Iteration:**