

Consider the equation: $x^{3}+2 x=\sin (x)+1$ and using Secant method.
Write a computer program to approximate the root of the equation in two cases:
(i) $\quad x_{0}=0.5, x_{1}=0.6$ to within accuracy $10^{-15}$.
(ii) $\quad x_{0}=0, x_{1}=1$ to within accuracy $10^{-15}$.

The decimal places to the right of the decimal point must be at least 15 places.
Notes:
a- The program is submitted with output by e-mail.
b- The program is done by any programming language you know.
c- The assignment is due on Sunday $\mathbf{1 1 8 \backslash 1 4 4 5 H}$ (before 1.00 p.m.)

With my best wishes,
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