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|  | {{method}} |  |
| * Problem Statement | For the function : | |
| * Requirements | Use the Newton-Raphson method to locate the root of function using the initial guess {{x}}.Continue for {{iteration}} iterations or until the approximate error {{ approximate}}, | |
| * Solution: The formula of the Newton-Raphson method is:         1. The first iteration :  {{x1}}  ={{ea1}}    The 1st iteration doesn’t have either nor , as there isn’t a previous approximation.  2. The second iteration :  {{x2}}    ={{ea2}}  3. The third iteration :  {{x3}}    ={{ea3}}  Then, the root of the function after achieving the required conditions is :  {{xreal}}  And so on for the rest iterations until reaching a termination condition, as the following table: | | |
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