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# Convergence of Newton's method

1分

Which of the following is true of Newton's method for finding an  $x$  satisfying  $f(x) = 0$  for some function  $f$ ?

选项\*

- ☐ A step in Newton's method can always be carried out for any smooth function and any value of the current guess  $x_k$ .
- ☐ Newton's method will find an (approximate) solution of  $f(x) = 0$  irrespective of the starting guess  $x_0$ .
- ☐ Newton's method will always make progress towards a solution.
- ☐ Once the current guess  $x_k$  gets close to the solution, convergence is usually very fast.

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