



Numerical Methods

You can use iteration to find approximations for $f(x) = 0$, to any desired degree of accuracy...

$$x_1 = 4 - \frac{1}{x_0}$$

$$x_0 = 3$$

$$x_1 = 4 - \frac{1}{3}$$

$$x_1 = 3.666666...$$

b) Use the iteration formula:

$$x_{n+1} = 4 - \frac{1}{x_n}$$

$$x_2 = 4 - \frac{1}{3.66...}$$

$$x_2 = 3.72727272...$$

to find, to 2 decimal places, a root of the equation:

$$x_3 = 4 - \frac{1}{3.727...}$$

$$x_3 = 3.73170731...$$

$$x^2 - 4x + 1 = 0$$

$$\text{Use } x_0 = 3$$

You do not need to write this out every single time, but a few examples are needed

$$x_4 = \underline{3.732026144...}$$

$$x_5 = \underline{3.732049037...}$$

$$x_6 = \underline{3.73205068...}$$

After a few iterations, the first few decimal places stop changing

→ 3.73 to 2dp

Numerical Methods In Chemistry

D Siedentop



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