



$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

# Numerical solutions of equations

You can solve equations of the form  $f(x) = 0$  using the Newton-Raphson process

Use the Newton-Raphson process to find the root of the equation:

$$x^4 + x^2 = 80$$

Use  $x_0 = 3$  and give your answer to 2 decimal places.

$$f(x) = x^4 + x^2 - 80$$

$$f'(x) = 4x^3 + 2x$$

$$x_0 = 3$$

$$x_1 = 2.912$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$x_1 = x_0 - \frac{(x_0)^4 + (x_0)^2 - 80}{4(x_0)^3 + 2(x_0)}$$

$$x_1 = 3 - \frac{(3)^4 + (3)^2 - 80}{4(3)^3 + 2(3)}$$

$$x_1 = 2.912$$

Our current approximation is  $x_0$ , replace the fraction with equivalent expressions

Sub in  $x_0 = 3$

Calculate

# First Course In Numerical Methods Solution

**Sabine Zange**

A decorative graphic element consisting of a semi-circular shape with a red-to-white gradient, positioned to the right of the author's name.

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