

Σ ed. 3 p. 214

(NOT Recommended Proof)

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

$$x_1 = 1$$

$$x_2 = 2$$

$\checkmark x_1$ $f(1) = 1 + 2 - 4 = -1 \dots$

$\times x_2$ $f(2) = 8 + 4 - 4 = 8 \dots$

~~$x_3 = 1 + 4 - 5 = 3.5$~~

$\checkmark x_3$ $f(1.5) = 2.375 \dots$

$x_1 \rightarrow x_3, x_4 = 1.25$

$\checkmark x_4$ $f(1.25) = 0.453 \dots$

$\times x_5$ $f(1.125) = -0.326 \dots$

x_6 $f(1.0625) = 0.0496 \dots$

x_7 $f(1.156) = -0.143 \dots$