



QT Iteration 2

(a) Show that when $f(x) = 0$, the equation $f(x) = x^3 - 7x + 2$ can be rearranged to give $x = \sqrt[3]{7x - 2}$

(b) Use the iterative formula $x_{n+1} = \sqrt[3]{7x_n - 2}$ with $x_0 = -2.4$ to find the real root of $f(x)$ correct to 3 decimal places.