



## 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.