Calculus Worksheet: Graphs of Functions (2)

f is a trigonometric function given by

$$f(x) = 4 - 3\sin(\tfrac{\pi x}{4})$$

Find

a) the period of f ,

b) the maximum and minimum values of $f(x)$,

c) the smallest positive value of x for which $f(x)$ has a maximum and the smallest positive value of x for which $f(x)$ has a minimum.

d) Sketch the graph of f .