Problem statement Suppose $f(x) = \sqrt{\frac{x}{4-x}}$.

a) Find the graph of $y = f(x)$ in the window $-5 \le x \le 5$ and $0 \le y \le 10$.

b) What is the domain of f? Verify your statement.

c) Solve $y = f(x)$ for x. What is the range of f? Your expression for x in terms of y may help to verify your statement.