## Answer on Question \# 76320 - Math - Calculus

## Question

New domain of the function (f) given by $f(x)$ is equal to $\frac{\sqrt{2-x}}{x}$ is zero and one, is it true or false? Give reason.

## Solution

Function $(f)$ is given by $f(x)=\frac{\sqrt{2-x}}{x}$
The domain of a function is the set of input or argument values for which the function is real and defined.

The function $f(x)$ is undefined at $x=0$.
For non-negative values for radicals, $2-x \geq 0$
or $x \leq 2$.

So, the domain of the function is $x<0$ or $0<x \leq 2$.

Answer: No, the statement is false.

