## Answer on Question \#85695 - Math - Calculus

## Question

The range of the function $f(x)=e^{-x} /(1+x)$ on [0, inf. [ is ]-inf., 0 [ Is the statement true or false? Give reason in support of your answer.

## Solution

For these values of x , both the numerator and the denominator functions, i.e. $e^{-x}$ and $1+x$, are stricly positive.
Therefore the range of the function is a subset of $] 0$, inf. [.

## Answer:

The statement is false.

