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.