## Question \#72394, Math / Calculus

Given
$x \cdot 3^{x}=3$
18

Let's rewrite the equation in order to solve it
using the "solve" function in SMath Studio:
$f(x):=x \cdot 3^{x}-3^{18}$
$X:=$ solve $(f(x) ; x)=15,5048917032312$

The X lies between integers 15 and 16 , thus the answer is $k=15$.

Solved in SMath Studio

