Problema 1.

$$F_1(x) := x - \left(1 + \frac{1}{x}\right)^x \qquad F_1(x) := x - \left(2 + \frac{2}{x} + \frac{2}{\frac{3}{x}}\right)^x \qquad F_2(x) := x - \left(2 + \frac{2}{x} + \frac{2}{\frac{3}{x}} + \frac{2}{\frac{3}{x}}\right)^x$$

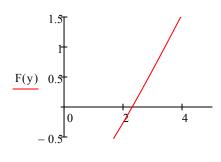
 $L_{\text{m}} := F(x) = 0 \text{ solve } \rightarrow 2.2931662874118610315$

 $L := F_1(x) = 0 \text{ solve } \rightarrow 0.08182588320705964077 \ 0.46567148392391967268i$

 $L := F_2(x) = 0 \text{ solve } \rightarrow -0.028655675496913800234 \ 0.48035940557452627859i$

x := 1.5 F(x) = -0.652

Given
$$F(x) > 0$$
 $s = Minimize(F, x)$ $s = 2.292$ $F(s) = -7.698 \times 10^{-4}$



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