

$$\begin{aligned} &\text{Ecce } x^{x+1} = (x+1)^x \Big|_{x>0} \\ h(z) &= z^{-z} - z - 1 \\ z_{i+1} &= z_i - \frac{h(z_i)}{\frac{dh}{dz} \Big|_{z=z_i}} \Big|_{z_0=0.5} \\ x &= \frac{1}{z_n} \end{aligned}$$