max 24.0309(((x−0.00001)^3.5809(0.99999−x)^0.9556)/((0.99999−0.00001)^5.5365)) where 0.00001 <=

| maximize | function | $\dfrac{24.0309\left((x - 0.00001)^{3.5809}\,(0.99999 - x)^{0.9556}\right)}{(0.99999 - 0.00001)^{5.5365}}$ |
|---|---|---|
| | domain | $0.00001 \leq x \leq 0.99999$ |

Global maximum:

$$\max\left\{ \frac{24.0309\left((x - 0.00001)^{3.5809}\,(0.99999 - x)^{0.9556}\right)}{(0.99999 - 0.00001)^{5.5365}} \,\middle|\, 0.00001 \leq x \leq 0.99999 \right\} \approx 2.32545$$

at $x \approx 0.789347$

Plot:



($x$ from $9 \times 10^{-6}$ to $1.1$)