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Inequalities on the Lambert \$W\$ Function and Hyperpower Function

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Abstract: In this note, we obtain inequalities for the Lambert W function W(x),

defined by $W(x)e^{W(x)}=x$ for $x\geq -e^{-1}$. Also, we get upper and lower

bounds for the hyperpower function $h(x) = x^{x^{x}}$.

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