$\begin{array}{c} \mathrm{MATH}\ 101(141) \\ \mathrm{QUIZ}\ \#\ 4 \end{array}$

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Use logarithmic differentiation to find the derivative of y with respect to x:

Q1.
$$y = x^{\sin x}$$

 $Q2. \quad y = (\ln x)^{\ln x}$