King **F**ahd **U**niversity for **P**etroleum and **M**inerals
Department of Mathematics & Statistics
Term 102 Math 101 (12) Quiz#6 (3.10 & 3.11)
Name: S.r#

Q1) Find the following:

- If $\cosh(\ln(4x)) = 1$, then x=

- $\coth(\ln 2) =$

- $\tanh^{-1}(2) =$

Q2) Using **differentials**, find the approximated value for $\sqrt{80.9}$.

Q3) Find the linearization $L(x)$ for the function $\frac{1}{1+x}$ at $x = 0$ and use it to find an approximate value for $10/11$.