

Department of Mathematics and Statistics
King Fahd University of Petroleum and Minerals
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Math 101-092

Quiz # : 2

Name : = ----- ID# -----

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Q 1 Let $f(x) = \sinh(2x) + \cosh(3x)$

a. Evaluate $f^{(1)}(x)$

b. $f^{(1)}(3 \ln 2)$

Q # 2 Use linear approximation to evaluate $f(x) = \sqrt{23} + \sqrt{26}$

Q# 3 Find $f^{(1)}(x)$ when $f(x) = \sinh^{-1}(2x) + \tanh^{-1}(3x)$