

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 151) Math 101-10 Quiz # 4

Name: _____ I.D. # _____ Sr. # _____

1. Find a linearization for $f(x) = \sqrt[4]{1+2x}$, and use it to approximate $f(7.4)$.
2. Given $\coth x = \frac{5}{4}$, find the values of the other hyperbolic functions at x .

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Department of Mathematics and Statistics
(Semester 151) Math 101-28 Quiz # 4

Name: _____ I.D. # _____ Sr. # _____

1. Use differential to approximate $(0.97)^{12}$.
2. Given $f(x) = \operatorname{csch} x (1 - \ln(\operatorname{sech} x))$, find $f'(x)$.