

QUIZ #5: CALCULUS 1A (Stankova)

Wednesday, February 25, 2004

Section 10:00–11:00 (Voight)

Name:

Please complete the following problem(s) in the space provided. You may *not* use a calculator. You will have 15 minutes to complete the quiz.

Please include all relevant intermediate calculations and explain your work when appropriate.

Problem 1. *Differentiate the function:*

$$y = x^{\ln x}.$$

QUIZ #5: CALCULUS 1A (Stankova)

Wednesday, February 25, 2004

Section 11:00–12:00 (Voight)

Name:

Please complete the following problem(s) in the space provided. You may *not* use a calculator. You will have 15 minutes to complete the quiz.

Please include all relevant intermediate calculations and explain your work when appropriate.

(You may certainly use differentiation laws!)

Problem 1. *Differentiate the function*

$$f(x) = \sin(\ln(2x)).$$

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Problem 2. *Differentiate the function*

$$h(x) = \ln(x + \sqrt{x^2 - 1}).$$