QUIZ #9: CALCULUS 1A (Stankova)
Wednesday, March 31, 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. *Find the limit. Use l'Hôpital's Rule where appropriate.*

$$\lim_{x \to \pi/2^+} \frac{\ln(x - \pi/2)}{\tan x}$$

Problem 2. *Find the limit. Use l'Hôpital's Rule where appropriate.*

$$\lim_{x \to 0^+} \sin(2x) \ln x.$$

QUIZ #9: CALCULUS 1A (Stankova)
Wednesday, March 31, 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.

Problem 1. *Sketch the curve. Find an equation of the slant asymptote.*

$$y = \frac{2x^2 - x - 1}{x + 1}.$$