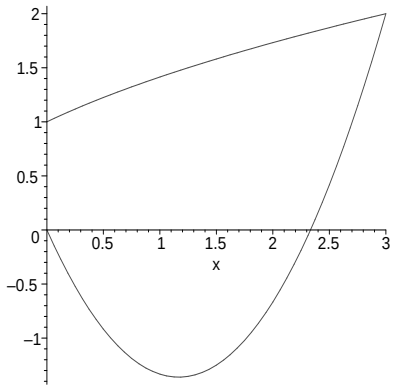
QUIZ #14: CALCULUS 1A (Stankova)
Wednesday, May 5, 2004
Section 10:00–11:00 (Voight)

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 area of the region bounded by the curves* $y = \sqrt{x+1}$ *and* $y = x^2 - 7x/3$ *between* $x = 0$ *and* $x = 3$.



QUIZ #14: CALCULUS 1A (Stankova)
Wednesday, May 5, 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. *Evaluate the* indefinite *integral*

$$\int 5x\sqrt{x^2-1}\,dx.$$

Problem 2. *Evaluate the* definite *integral.*

$$\int_1^4 \left(\frac{1}{2\sqrt{x}}\right) e^{\sqrt{x}}\,dx.$$