QUIZ #12: CALCULUS 1A (Stankova)
Wednesday, April 21, 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. *Express the limit as a definite integral on the given interval:*

$$\lim_{n\to\infty} \sum_{i=1}^{n} \left(e^{(x_i^*)^2} + x_i^* \sqrt{1 - x_i^*} \right) \Delta x, \qquad [1, 4].$$

QUIZ #12: CALCULUS 1A (Stankova)
Wednesday, April 21, 2004
Section 11:00–12:00 (Voight)

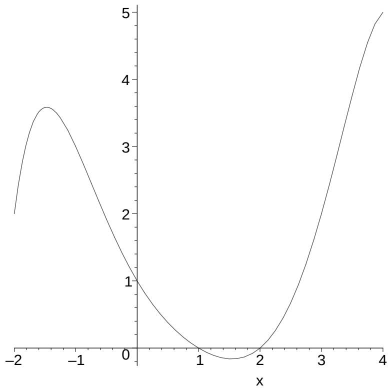
Name:

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. *The graph of f is shown. Draw a picture and estimate $\int_{-2}^{4} g(x)\,dx$ with three subintervals using:*

(a) *left endpoints,*



(b) *midpoints.*