NAME: _____

Math 200 Calculus I (Bueler) 30 April 2008

Quiz #10

20 points total. You have 20 minutes.

1. (*5 pts*) Evaluate the integral by interpreting as area or areas:

$$\int_{-1}^{2} 2x - 3\,dx.$$

2. (*5 pts*) Consider the given function:

$$f(x) = x^2 + 1$$

Evaluate the Riemann sum R_4 for $0 \le x \le 4$, with $n = 4$, taking the sample points to be right endpoints.

3. (*5 pts*) Express the integral as a limit of Riemann sums. (Do not evaluate the limit.)

$$\int_0^2 \frac{x}{2+x^4}\,dx$$

4. (*5 pts*) Evaluate:

$$\int_2^2 \frac{\arcsin(e^x)}{2+\cos(x^4)}\,dx$$

(*Hint*: This is an easy problem requiring no work to get the right answer.)