Name: SOLUTIONS

Quiz #9 - November 28, 2007

1. Express

$$\int_1^6 \frac{x}{1+x^5}dx$$

as a limit of Riemann sums. Do not evaluate the limit.

$\Delta x = \frac{5}{n}$

$x_i = 1 + \frac{5i}{n}$

$$\lim_{n\to\infty} \sum_{i=1}^{n} \frac{1+\frac{5i}{n}}{1+(1+\frac{5i}{n})^5} \cdot \frac{5}{n}$$