Math 426/576

Homework due 05/16/08

READING: Bartle, Chapters 5 and 6.


Problem 1. Compute the following limit and justify the calculation:

\[ \lim_{n \to \infty} \int_{0}^{\infty} \frac{n \sin(x/n)}{x(1 + x^2)} \, dx. \]