

August 31, 2001

Study Group Members

Name

Directions: Be sure to include in-line citations, including page numbers if appropriate, every time you use the results of discussion, a text, notes, or technology. **Only write on one side of each page.**

“Obvious” is the most dangerous word in mathematics. – Eric Temple Bell

Problems

1. There are many ways to define (or compute) area. Illustrate your understanding of the notation and method used in Section 2 of Chapter 5 by using the appropriate limit to compute the area of the region between $x = 1$ and $x = 5$ that is bounded below by the x - axis and above by the graph of the curve $y = x^3 - 1$.
2. The first few terms of a certain sequence are: 3, -3 , 5, 69, 255, 653, 1377, 2565, 4379, 7005, \dots . Using $a_1 = 3$, $a_2 = -3$, $a_3 = 5$, etc., determine a formula for a_n .