Homework 8

Due: WEDNESDAY, NOVEMBER 26

November 20, 2008

1. Exercise 3.14.

2. Exercise 3.16.

3. Exercise 5.1.

4. Exercise 5.13.

5. Exercise 5.14.

6. Let $a, b, h \in \mathbb{R}$. Find the hyperbolic area of the EUCLIDEAN square S with vertices $a + bi$, $a + h + bi$, $a + (b + h)i$, and $a + h + (b + h)i$. Find the limit of the ratio of hyperbolic area of S to its Euclidean area as h approaches 0.