

18.116 Riemann Surfaces, MIT Spring term, 2008

Second exercise sheet. Due: April 17, during class.

Late assignments will not be accepted.

Chapter 3 of Jost is a very nice introduction to linear and non-linear geometric analysis. The theory of harmonic maps a 2-dimensional generalization of basic results concerning geodesic curves. Studying chapter 3 is fundamental for further study in geometric analysis.

Exercise 1. Jost:

- 3.1 ex. 1,2.
- 3.2 ex. 1,2,3,4,5.
- 3.3 ex. 1.
- 3.4 ex. 1,2.
- 3.5 ex. 1, 2.
- 3.6 ex. 1.
- 3.7 ex. 4.
- 3.9 ex. 1.
- 3.10 ex. 1, 2.