

THE REAL II PRESENTATION

1. THE ASSIGNMENT

You will teach part of this course. Every student will teach one class. That includes:

- (40 points) One day's lecture
- (20 points) Two typed homework / exam problems
- (40 points) Typed solutions to your problems

You'll do this work in consultation with me. You *should* be able to get the points.

2. SOME TOPICS

Here are a few potential topics. Topics that are grouped together might make nice team efforts.

- Group 1
 - Section 6.3 on Absolute Convergence
 - Section 6.4 on Rearrangement
- Group 2
 - Section 7.2 on Uniform convergence
 - Section 7.3 on Inherited properties
- Section 7.6 on Miscellaneous Results
- Section 8.3 on Continuous functions
- Section 8.4 on more Miscellaneous Results

There are all kinds of topics for later in the semester. Perhaps:

- Group
 - Peano's curve
 - Hilbert's curve
- Group
 - Takagi's function
 - Weierstrass's function
- Group
 - Banach space
 - Hilbert space

Though, I'll probably need to consider these a bit more as the semester progresses.