**Week 2 (Jan 15 – 19, Lectures 3 to 4) Teaching and Learning**

**Topics**

**10.4**: Direct comparison test and limit comparison test.

**10.5**: Absolute and conditional convergence; ratio test; root test.

**10.6**: Alternating series; alternating series test and approximation; absolute vs conditional convergence --- re-arrangement.

Note:

1. It is OK to shuffle the contents above around in an order you prefer and feel free to add in your own stuff, so long as the non-optional topics are all covered.
2. Feel free to go faster but please aim not to be slower.

**Assignment 2**

10.4, #4,6,13,20,36,42,44,46,47,53,58,61,63,64

10.5, #7,8,14,18,23,33,35,40,50,52,58,62,65,66

10.6, #18,20,24,27,30,43,44,48,51,54,66,68

The questions above need to be submitted; students are encouraged to attempt other questions in the same chapters if they need more exercises.

Deadline: 11:59 PM, Friday, Jan 26 --- solutions should be submitted online on Blackboard in one single PDF file.

**Quiz 1 next week (Week 3, Jan 22 – 26, in tutorials)**

Scope = 10.1, 10.2, 10.3; three problems (could have parts); 30 minutes.