

## Homework Assignment for Week 12

Assigned May 11, 2011.

1. Section 6.3: Do as many problems in 31-40, 85-90, as time permits.
2. Section 6.4: Problems: 9, 19, 25, 41, 47, 57, 71.

3. Evaluate

$$\lim_{n \rightarrow \infty} \sum_{k=\frac{n}{2}}^n \frac{1}{k}$$

Hint: try to express it in terms of  $\frac{k}{n}$ .

4. Section 6.6: Problems: 17, 21, 27, 33, 37-46, 51, 54, 55.