

Homework Assignment for Week 10

1. Section 6.1: Problems 45, 47, 59, 65.
2. Section 6.2: Problems 28(c), 32, 45, 46.
3. Section 6.3: Problems 41, 50, 51, 57, 65, 77, 87, 89, 91.
4. Section 6.3: Do as many as time permits in problems 31-40, 85-90.
5. Section 6.4: Problems: 9, 19, 25, 41, 47, 57, 71.
6. Evaluate

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

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