

Homework Assignment for Week 09

1. Section 5.3: Problems 1, 31, 35, 36, 39, 40.
2. Section 5.4: Problems 7, 11, 13, 19, 23, 41, 43, 45, 51, 69, 73.
3. Section 5.5: Problems 11, 23, 36, 37, 45, 49, 55.
4. (s5.5-extra1) Evaluate

$$\lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{n} \sin\left(\frac{k}{n}\right).$$

5. Section 5.6: Problems 53, 55, 56, 58, 67, 71, 73.