



Chapter 6: Worksheet

This worksheet proposes a number of exercises complementing the problem-solving sessions as well as the short exercises in the slides. This list is not exhaustive and you can consider additional exercises from the corresponding books in the bibliography.

If you have any doubts regarding notation, you can resort to the conversion table available in the virtual campus.

Note: exercises from the book “Signals and Systems” by A. Oppenheim are enumerated according to the second edition.

Exercises from: Señales y Sistemas Escalares Unidimensionales de Variable Real. Ejercicios Resueltos. Vol. ST-II. GR Editores S.L., León, 2009 about Fourier Series 1

4.7, 4.8, 4.9, 4.10

Exercises from “Signals and Systems” (A. Oppenheim) about Fourier Series 2

3.1, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.13, 3.15, 3.17, 3.19, 3.20, 3.21, 3.22, 3.23, 3.24, 3.25, 3.33, 3.34, 3.35, 3.40, 3.41, 3.42, 3.43, 3.44, 3.45, 3.46, 3.47, 3.61, 3.62 (similar al hecho en PA), 3.63, 3.64, 3.65, 3.66, 3.68 ($\delta(k)$ can be defined by means of the Kronecker delta as δ_{0k})