

18.327/1.130: Wavelets, Filter Banks and Applications

Problem Set 3

Issued: Wednesday, March 10, 2004

Due: Wednesday, April 7, 2004

Textbook Problems

1. Problem Set 6.1, pp. 186. Problems 3 and 5.

ℓ^2 is the space of square summable series in \mathbb{R} , $\sum_{n \in \mathbb{Z}} a_n^2 < \infty$.

2. Problem Set 6.2, pp. 193. Problems 7 and 8.

You might find it convenient to use a symbolic computing program such as Maple.

3. Problem Set 6.3, pp. 201. Problems 2 and 3.

4. Problem Set 6.4, pp. 208. Problem 4.

5. Problem Set 6.5, pp. 218. Problems 4, 7 and 9.

6. Problem Set 7.1, pp. 233. Problem 8.

7. Problem Set 7.2, pp. 242. Problem 2.

8. Problem Set 7.3, pp. 250. Problems 7 and 8.

9. Problem Set 7.5, pp. 262. Problem 4

Change Figure 7.8 in the problem to Figure 7.7.