

Math 316-01 Homework Set 6

Instructions: Work each of the assigned problems. Write the solution to each problem in an organized and concise manner. Print out and attach (output deleted) any Mathematica code you used to solve the problems. Homework sets that are messy and disorganized will not be graded. This homework set is due on **Friday, April 11, 2008** at 3:00pm.

1. Section 7.1: 7.2, 7.8, 7.9. Also 7.14 is a 3-point extra credit problem.
2. Section 7.2: 7.27
3. A follow-up to 7.27. Use Mathematica in conjunction with Theorem 7.2 to determine the D8 filter. (You can check your work by issuing the `Daub[8]` command in Mathematica after loading the `DiscreteWavelets` package.)