

Worksheet #16 (2017/12/18)

Name:

ID:

CS3330 Scientific Computing, Instructor: Cheng-Hsin Hsu

- We plan to cover Sections 12.2.1–12.6 today.
 - We use Chapter 09 slides 21–32.
 - This is corresponding to the textbook pages 501–506.
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- 1) What should we do when the input sequence of FFT is not power of two in length?
 - 2) Mixed-radix FFT is also a recursive algorithm, what is the stopping criteria? How to solve the "smallest" mixed-radix FFT problem? What's its complexity?
 - 3) How to use FFT to solve multiplication of two polynomials?
 - 4) In DWT, what is the intuition behind "doubly-indexed basis functions $\phi_{jk}(x)$ are mutually orthogonal?