CS395T: Randomized Algorithms David Zuckerman

Problem Set No. 6 due: November 14, 2006

- 1. Problem 4.11.
- 2. Problem 4.13.
- 3. Exercise 9.27 (page 269; see definitions on page 263).
- 4. Problem 9.8.
- 5. A point in \mathbb{R}^n may be viewed as a vector whose tail is at the origin. Show that in the Johnson-Lindenstrauss Theorem, the angle between each pair of vectors is also approximately preserved. Quantify your result.