PRINCETON UNIVERSITY COS 522: COMPUTATIONAL COMPLEXITY

Homework 5

Out: *March 26* Due: *May 10*

For undergrads: Visit the library and look up a few journals on complexity theory. Pick a research paper (one not covered in class) and do a 2-page typewritten summary. The summary should indicate the main ideas of the paper. Keep in mind that you're writing for me, so you can omit many details.

For grads: You could do the undergrads' assignment for a maximum grade of B+. To get a better grade your assignment is to prove a new theorem. If this new theorem is publishable then you get an A+ on the assignment. You can collaborate with one other person in the class.

Some journals that carry articles on complexity theory: Journal of the Association for Computing Machinery (JACM), SIAM J. Computing, Computational Complexity, Journal of Computer and System Sciences, Computational Complexity, Theoretical Computer Science, Electronic Colloquium on Computational Complexity (ECCC).