

CSE 6321 - Problem Set 4

Due beginning of lecture on March 19th

Problem numbers are from the third edition of Sipser's book. If unsure about which problem to solve, ask. Collaboration is permitted; looking for solutions from external sources (books, the web, material from previous years, etc.) is prohibited.

1. 7.26 (7.24 in second edition, about $\neq\text{SAT}$)
2. 7.29 (7.27 in second edition, about 3COLOR) (Optional hint: do not follow the hint in the book and show $\neq\text{SAT} \leq_P 3\text{COLOR}$, where $\neq\text{SAT}$ is from problem 1.)
3. 7.38 (7.36 in second edition, about SAT)