

Ειδικά Θέματα Αλγορίθμων
Ασκήσεις Φροντιστηρίου #11
LP-based and Randomized Algorithms

1. Give the LP, for the following problem and find an approximation algorithm based on this LP.
TRIANGLE DELETION: Given an edge-weighted directed graph (V, E) , find a set $S \subseteq E$ of minimum cost, such that the graph $(V, E \setminus S)$ is triangle-free.
2. Derandomize the Max-Cut algorithm using conditional expectations.