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### (3) NEW REDUCTIONS

SUBJECT: BEING ABLE TO APPLY THE 5 STEPS STUDIED IN ORDER TO PROVE NP-COMPLETENESS OF A NEW PROBLEM

TESTING METHOD:

I GIVE YOU THE "REDUCTION IDEA" OR THE "REDUCTION IDEA" IS EASY TO DERIVE. YOU WRITE THE NP-COMPLETENESS PROOF.

### (4) KNOWN APPROXIMATION ALGORITHMS

SUBJECT: UNDERSTANDING ALL APPROXIMATION ALGORITHMS STUDIED (IN CLASS OR IN ASSIGNMENTS)

TESTING METHOD:

I GIVE YOU AN INSTANCE OF A PROBLEM AND YOU APPLY THE ALGORITHM. YOU MAY HAVE TO ANSWER QUESTIONS ABOUT THE APPROXIMATION RATIO OR THE OPTIMAL SOLUTION.