

OR2 Final Test

Examples List to Solve (you can use MS Excel)

1. Production Planning

- (a) Cutting stock problem – finding all cutting patterns for given problem.

2. Assignment Problem

- (a) Linear assignment problem – finding a feasible solution with the use of the *matrix minimum method*.

3. Graph Modeling

- (a) Finding the *minimal spanning tree*.

4. Transportation and Routing Problems

- (a) Transportation problem – finding a feasible solution with the use of the *north-west corner method* and the *matrix minimum method*.
- (b) Traveling salesman problem – decision on the feasibility or infeasibility of the proposed solution, finding a feasible solution with the use of the *nearest neighbor algorithm*.

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