



ENTRANCE EXAM
SBWL SUPPLY NETWORKS AND SERVICES
DATE: XX.MONTH XXXX
XX:XX-XX:XX TC 0.10 AUDIMAX

Last name:

First name:

Immatriculation number:

- Only content on this exam is assessed.
- The sheets of this exam **must not be separated**.
- Only **comprehensible** calculations are assessed.
- Don't write with erasable pencils.
- No documents are allowed.
- Processing time: **60 minutes**

Question	Max.	Achieved points
1		
2		
3		
4		
5		
6		
Sum:	Σ	

1. What is the supply chain surplus and how do you compute it?

2. Following the case of Zara - Apparel Manufacturing and Retail: What advantages does Zara gain compared to the competition by having a very responsive supply chain?

3. Describe the meaning of the term "dual value" in the context of linear programming.

4. Draw the following linear program and determine the optimal solution graphically.

$$-50x + 50y \rightarrow \min.$$

$$y \leq 1$$

$$x \leq 5$$

$$2y - 2x \geq -8$$

$$-y - \frac{x}{2} \leq -2$$

$$x, y \geq 0$$

5. Describe the meaning of the term "Feasible region" in the context of linear programming.