

Microeconomics I, 2023/2024
Master of Science in Economics
Problem Set 1

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Question 1 *Consider the strict preference relation \succ and the indifference relation \sim presented in class. For each of these relations prove that transitivity is satisfied.*

Question 2 *Solve Exercise 1.B.1 in Mas Colell-Whinston-Green.*

Question 3 *Solve Exercise 1.B.4 in Mas Colell-Whinston-Green.*

Question 4 *Solve Exercise 3.B.1 of Mas Colell-Whinston-Green.*

Question 5 *Consider the following utility function $u(x_1, x_2) = x_1 - x_2$. Show that it represents a rational preference relation \succsim that is locally non-satiated but not monotone.*

Question 6 *Solve Exercise 3.C.1 of Mas Colell-Whinston-Green.*

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