

UNDERSTANDING & EXPLANATION TASK U2

MasterMath: Set Theory

2021/22: 1st Semester

K. P. Hart, Steef Hegeman, Benedikt Löwe, Robert Paßmann

Deadline for Understanding & Explanation Task U2: Monday, 11 October 2021, 2pm.
Please hand in via the `e1o` webpage as a single pdf file.

Understanding & Explanation tasks (U).

Marking Scheme.

An answer will be considered **good** if all three criteria are satisfied. These answers will get full points (i.e., **$3\frac{1}{2}$ points**).

It will be considered **satisfactory** if it has minor deficiencies in some of the three criteria. Satisfactory answers will get **3 points**.

It will be considered **unsatisfactory** if it has a major deficiency in either correctness or comprehensivity. Unsatisfactory answers will get either **2 points**, **1 point**, or **0 points**, depending on the flaws.

Task U2. Explain the difference between the *Recursion Theorem with a range fixed in advance* and the *Recursion Theorem without a range fixed in advance*. In particular, state versions of them explicitly and explain how the axiom scheme of Replacement is used in the latter, but not the former.