

INTRODUCTION TO HIGHER MATHEMATICS V2000

General rules for homework.

- Cooperation with others is OK, copying from others is not.
- Put your name on each page and submit all pages attached.
- Homework will be graded and will count for 30% of the final grade.
- Late homework will be penalized, unless the student has a valid excuse.
- Students may resubmit revised homework for regrading, and either the original grade or the average of the two grades (whichever is higher) will be recorded.

HOMEWORK, WEEK 1, DUE SEPTEMBER 15

From Dumas, McCarthy, Second Edition, Ch 1.

Exercises 1.1; 1.2 part (i); 1.4 (parts ii, iii, v); 1.7; 1.10 (parts i, iii,v); 1.15; 1.16 (iii), (iv); 1.19 (i)-(iii).

Note for Exercise 1.10: Exponentiation on a set X of numbers is the operation $X \times X \rightarrow X$ given by $(m, n) \mapsto m^n$, which denotes m to the power n . Thus $(2,4)$ goes to $2^4 = 16$.

Optional problems. Exercises 1.8, 1.20, 1.21.