

ASSIGNMENT 413-4

To be returned 09.30.03

**Main Part.**

- 1 (5) 2.3.3.1
- 2 (7). The same for multiplication.
- 3 (8). The same for reciprocal numbers.
- 4 (5). 2.3.3.3
- 5 (8). Prove that any real number has a binary decomposition (which determines a Cauchy sequence that represents this number).
- 6 (5). 3.1.3.1 a,c (2+3).
- 7 (5). 3.1.3.2
- 8 (7). 3.1.3.7

**Supplementary part.**

- 9 (10). 3.1.3.9
- 10 (15). 2.3.3.4

Reminder about grading.

1. Supplementary part is extra credit.
2. The work with less than 35 points for the main part cannot get more than A-.