

I would appreciate if you follow the following instructions:

- Staple the sheets.
- Answer in order of the asked questions.
- Be clear with handwritings and solutions.
- Write your full name.

HW1 MATH4140/5140, ASSIGNED: JAN. 22, 2018 - DUE: JAN. 29, 2018

INSTRUCTOR: FARID ALINIAEIFARD

Homework 1 for undergraduate level MATH 4140

Solve the following questions from the textbook.

Section 3.1: 6, 20, 33, 40.

Section 3.2: 3, 20, 30, 38, 40

Section 3.3: 8, 34, 27

Homework 1 for graduate level MATH 5140

- (1) Find a division ring which is not a field.
- (2) Solve the following questions from the textbook.

Section 3.1: 45.

Section 3.2: 44, 45, 46,

Section 3.3: 40, 41, 42