

# Problem Set 5

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## Instructions

This is the Problem Set 5 of this course and is composed of two parts. The first part is aimed at those of you to whom concepts such as vectors, matrices and determinants are very distant. The purpose being that you refresh these concepts and do some practice for which you will have to read the book given as a reference and do the exercises. Those of you who feel comfortable with these concepts can easily skip PART I.

The second part are selected problems from the referenced web page of professor Martin J. Osborne. This time I will not hand out solutions as they are already in the same web page, nevertheless I strongly encourage you to try them hard without looking at the solutions, since you will definitely not have them at the exam.

## PART I

Read the following passages of the book: 15.1-15.5, 15.6, 15.7, 16.1, 16.2, 16.4, 16.6. After you have read them go to the exercises and try. If you are tired of reading you can interchange the first few chapters with problems and then keep on with the next.

Selected problems:

- Chapter 15: 1, 2.bcdf, 3.bcd, 4, 5 and 6
- Chapter 16: 1, 2, 3 and 4

## PART II

Selected problems of chapters 5.2 and 5.3 of the following webpage of [Martin J. Osborne](#)

- 5.2: 2, 3, 4, 6 and 8
- 5.3: 6, 7 and 9