

Math 349 Exam 1 Thursday, October 16

A review session will be given on Tuesday October 14 during regular class time

The material you need to know and problems to practice

1. **Algebra of Vectors in \mathbb{R}^n :** Sections 1.1, 1.2 (Have a look at the Section 1.3)

Study problems from Homework 1. Do some of the following problems to practice:

Section 1.1 # 17, 18

Section 1.2 # 3, 5, 9, 20, 23, 26, 29, 36, 37, 43,

2. **System of Linear Equations, Spanning, Linear Independence:** Sections 2.1, 2.2, 2.3,

Study problems from Homework 2. Do some of the following problems to practice:

Section 2.1 # 33-38

Section 2.2 # 5, 6, 7, 8 12, 13, 25, 26, 27, 29 35, 38, 42, 43

Section 2.3 # 3, 4, 5, 8, 10, 11, 12, 22, 25, 26, 27, 28, 30

3. **Matrix Operations, The Inverse of a Matrix:** Sections 3.1 (without Partitioned Matrices), 3.2, 3.3.

Study problems from Homework 3. Do some of the following problems to practice:

Section 3.1 # 1-18

Section 3.2 # 26, 35, 36, 37, 42, 43.

Section 3.3 # 35, 36, 42, 52, 53, 54, 55, 56, 57

Note A copy the the complete solution manual is available for you in the reserved room of Morris Library. You can consult the book for the solution of some of practice problems.