Math 3A, Fall 2016

Instructor: Umut IsikTA: Jennifer NguyenText: Linear Algebra and Its Applications, David Lay

Lecture	Book Section	Торіс
1	1.1	Systems of Linear Equations
2	1.2	Row Reduction and Echelon Forms
3	1.3	Vector Equations
4	1.4	The Matrix Equation Ax=b
5	1.5	Solution Sets of Linear Systems
6	1.6	Applications of Linear Systems
7	1.7	Linear Independence
8	1.8	Introduction to Linear Transformations
9	1.9	The Matrix of a Linear Transformation
10		Review
11		Midterm #1 (17 October)
12	2.1	Matrix Operations
13	2.2	The Inverse of a Matrix
14	2.3	Characterizations of Invertible Matrices
15	2.8	Subspaces of R ⁿ
16	2.8, 2.9	Cont.
17	2.9	Dimension and Rank
18	3.1	Introduction to Determinants
19	3.2	Properties of Determinants
20		Review
21		Midterm #2 (9 November)
22	3.3	Cont.
23	5.1	Eigenvectors and Eigenvalues
24	5.2	The Characteristic Equation
25	5.2, 5.3	Cont.
26	5.3	Diagonalization
27	5.4	Eigenvectors and Linear Transformations
28	6.1	Inner Product, Length, and Orthogonality
29	6.2	Orthogonal Sets (up to page 343)

Final exam: Wednesday, December 7. Please check the time and place of the final exam for your section.