MATH 546 — Fall 2022— Notes about EXAM 3

- (1) Exam 3 is on Thursday, November 3, 2022. The exam covers the entire course up until the end of our discussion of Cayley's Theorem. In particular, the exam covers pages 4-24 of the class notes, Homework problems 1-33, 56-58, 66, 70, 76 and questions 3.11, 3.12, and 5.7 from the class notes.
- (2) Be sure to MASTER all of the assigned homework.
- (3) Be sure to MASTER all of the quizzes.
- (4) The material on the old MATH 546 exams which is covered on your exam 3:
 - Exam 1's:
 - **-** 1993: 1, 3, 4, 5.
 - 1994: 1, 2, 3, 4, 5, 6, 7.
 - Spring 2001: 3, 4, 5, 6, 7, 8.
 - Summer 2001: 3, 4, 5, 6, 7, 8, 9.
 - Summer 2002: 3, 5, 6, 7, 8.
 - Spring 2004: 2, 3, 4, 5, 6, 7, 8.
 - Fall 2004: 2, 3, 4, 5, 7, 8.
 - Spring 2010: 1, 2, 3, 4, 5
 - Fall 2011: 1, 2, 3, 4, 5
 - Fall 2022: all.
 - Exam 2's:
 - 1993: 3, 4, 5 (In 4 and 5, S_A is the group of invertible functions from A to A. The operation is composition.)
 - 1994: 1, 2, 3, 5, 6.
 - Spring 2001: 1, 2, 3, 4, 5, 7.
 - Summer 2001: 1, 3, 4, 5, 6, 7, 8, 9, 10.
 - Summer 2002: 3, 4, 5, 6, 7, 8, 9, 10.
 - Spring 2004: 1, 2, 3, 4, 5, 6, 7.
 - Fall 2004: 3, 4, 5, 6, 7, 8.
 - Spring 2010: 1, 2, 3, 4, 5, 6.
 - Fall 2011: 1, 2, 3, 4, 5, 6, 7, 8,
 - Fall 2022: all.
 - Exam 3's:
 - **-** 1993: 1, 2, 3, 4.
 - 1994: 2, 3, 4, 5, 6, 7.
 - Spring 2001: 4, 5. (In these problems S_A and Sym(A) both are the group of invertible functions from A to A. The operation is composition.), 9.
 - Summer 2001: 1, 2, 3, 5a, 6, 8.
 - Summer 2002: 1, 2, 3, 4, 5, 6.

- Spring 2004: 1, 3, 5, 6, 7, 8.
- Fall 2004: 2, 3,
- Spring 2010: 1, 3, 7
- Fall 2011: 2, 3, 4, 5, 6, 7, 8,
- Exam 4's:
 - Spring 2001: 1, 2, 3, 4, 5, 7, 10.
 - Summer 2001: 8, 9, 10.
 - Summer 2002: 2, 3.
 - Spring 2004: 2, 3, 4, 5, 6, 9, 10.
 - Fall 2004: 5, 6, 7.
- Final Exams:
 - 1993: 2, 3, 4.
 - 1994: 2, 3, 4, 5, 6, 7, 8c, 11.
 - Spring 2001: 2, 3, 5, 6, 8, 9, 10, 11, 14, 15, 16, 18.
 - Summer 2001: 1, 2, 3, 5, 6, 7, 8, 11, 17, 18, 20.
 - Summer 2002: 1, 3, 4, 5, 6, 7, 9, 10, 11, 14, 18.
 - Spring 2004: 1, 3, 4, 5, 6, 10, 12, 13, 14, 15, 16, 17.
 - Fall 2004: 1, 2, 10, 11, 12, 13
 - Spring 2010: 2, 3, 4, 5, 6, 10.
 - Fall 2011: 8, 10, 11.