

MATH 544 — Fall 2020— Notes about EXAM 2

- (1) Exam 2 is on Monday, October 19, 2020. The exam covers sections 1, 2, 3, 6, 7, 8, 10, 11 of Chapter 1, sections 2 and 3 of Chapter 2, and sections 2 and 3 of Chapter 4.
- (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 544** exams which is covered on your exam 1:
 - Exam 1's:
 - 97: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - 98: 1, 2, 3, 4, 5, 6, 7, 8, 9.
 - 01: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - 02: 1, 2, 3, 4, 5, 6, 8, 10.
 - spring 03: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - summer 03: 1, 2, 3, 4, 5, 6, 7, 8, 9.
 - 04: 1, 2, 3, 4, 5.
 - summer 05: all
 - fall 05: all
 - summer 06: 1, 2, 3, 4, 6, 7.
 - fall 06: all
 - summer 07: 1, 2, 3, 4, 5, 6, 7.
 - fall 09: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.
 - spring 11: 1, 2, 3, 4, 5, 6, 7, 8, 9.
 - summer 12: all
 - spring 16: all
 - fall 20: all
 - Exam 2's:
 - 97: 1, 2, 3, 4, 5, 6, 7, .
 - 98: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - 01: 1, 2, 7, 8, 9, 10.
 - 02: 1, 6, 7.
 - spring 03: 1, 2, 3, 4a, 4b, 4c, 4d, 4e, 5, 6, 7, 8.
 - summer 03: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - 04: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - summer 05: 1, 2, 3, 4, 5, 6, 7.
 - fall 05: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
 - summer 06: 3a, 3b, 4, 5, 8, 9.
 - fall 06: 1, 2, 3, 4, 5, 6, 7, 8, 9.
 - summer 07: 1, 2, 3, 4, 5, 6, 7, 8, 9.
 - fall 09: 2, 3, 5, 6.

- spring 11: 1, 2, 3, 4, 5, 6, 7, 8, 9.
- summer 12: 1, 2, 3, 4, 5, 6, 7, 8.
- spring 16: 1, 2, 3, 4, 5, 6, 7.
- Exam 3's:
 - 97: 4, 5, 6, 7, 8.
 - 98: 1, 2, 5, 6, 7, 9.
 - 01: 4, 5, 8, 9, 10.
 - 02: 2, 3, 4, 6, 10.
 - Spring 03: 1, 2, 7a, 7b, 8,
 - summer 03: 1, 2, 3, 5, 6, 7, 8.
 - summer 04: 2, 4, 5, 6, 7, 8,
 - summer 05: 3, 4, 6, 7.
 - fall 05: 4ab, 9, 10.
 - fall 06: 1, 3, 4, 7a, 7c.
 - su 07: 1 (Is V a vector space? You need not worry about basis.), 2 (Is V a vector space? You need not worry about basis.), 4, 5.
 - fall 09: 2, 7.
 - sp 11: 3, 5, 6, 7, 8.
- Exam 4's:
 - 98: 2, 4, 5, 7.
 - su 01: 2, 3, 4, 5, 8.
 - sp 02: 6 (Do prove that V is a vector space. You can ignore "basis".)
 - sp 03: 5, 8.
 - su 03: 6.
 - su 04: 2, 4, 5.
 - su 05: 2.
 - f05: 7, 8.
- Final Exams:
 - 97: 3, 4, 5 (Show that V is a vector space. Ignore "basis".), 9 (The matrices A and b are given before problem 6.), 13, 14, 15, 16.
 - 98: 2, 4, 5, 6, 11, 12, 14.
 - 01: 2, 3, 4, 8, 9abc, 10e, 10f, 13.
 - 02: 3, 5 (Do prove that V is a vector space. Ignore basis.), 8 (Solve $Ax = b$ and then stop.), 14, 15, 16.
 - spring 03: 3 (ignore basis), 4 (ignore basis), 5 (ignore basis), 6(ignore basis), 10, 11, 14, 16, 17, 19.
 - summer 03: 4 (ignore basis), 11, 12, 16, 17abc.
 - 04: 1ab, 4, 6, 8, 10 (Prove V is a vector space. Ignore basis.), 12, 13.

- summer 05: 1ab, 5, 9 (Do prove that V is a vector space. Ignore basis.), 10 (Do prove that W is a vector space. Ignore basis.)
- fall 05: 1ab, 6, 9, 16.
- summer 06: 1, 2, 3abc, 9 (Do prove that V is a vector space. Ignore basis.), 10, 12.
- fall 06: 1, 2, 6a, 11.
- summer 07: 2, 5, 6.
- fall 09: 1, 2, 6, 7, 12 (Prove W is a vector space. Ignore basis.).
- spring 11: 1, 2, 3.
- summer 12: 7, 8, 12 (Prove that the listed vector spaces are vector spaces. Ignore basis.)
- sp 16: 1, 2, 3, 6, 7.