

Optional Homework Assigned in Fall 2019 MA 405-050

Updated as of November 14, 2019

P stands for Page, S stands for Section. This listed is updated throughout the semester but not necessarily daily.

1. S1.1 P10; 1, 4.
2. S1.2 P23; 1, 2, 3, 8, 9.
3. S1.3 P46; 1, 2, 4,6,7, 8,10, 11, 12 15, 16.
4. S 1.4 P58; 1, 3, 4, 7, 9 10, 11, 14, 19, 20, 24, 25, 28, 29
5. S 1.5 P68; 1, 3, 6, 12, 13, 18, 19, 15, 21, 22, 23, 24. (tentative)
6. S 1.6: P78; 1, 4, 7, 8
7. S 2.1 P93; 1, 3, 5, 6
8. S 2.2 P100; 1, 4, 5, 7
9. S 2.3 P 108; 2, 3, 7
10. S3.1 P118; note (4, 5), 6, 10.
11. S3.2 P128; 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 14, 16, 18, 19, (note 22, 24), 23, 25.
12. S3.3 P140; 1, 2, 4, 6, 7 , 8, 9, 14, 16
13. S3.4 P146; 1,3,4, 5, 7, 8, 10, 11, 13, 14, 15, 17, 18.

END OF EXAM I MATERIAL

14. S3.5 P156; 1, 2, 4, 5, 9, 10
15. S3.6 P162; 1, 2, 3, 4, 5, 6, 8, 9, 10, 19, 22, 26, 29, 32
16. S4.1 P177; 1, 3, 4, 5, 6, 10, 11, 13, 15, 16, 21, 22, 24, 25.
17. S4.2 P190; 2, 6, 7, 8, 13, 14, 18,13, 14,
18. S4.3 P197; 1, 5, 8, 11, 12, 13, 14, 15

END OF EXAM II MATERIAL

19. S5.1 P215; 1, 3, 5, 8, 12, 14
20. S5.2 P224; 1, 3, 6, 7, 8, 9, 13, 14.
21. S5.3 P237; 1,3, 9
22. S5.4 P246; 1, 4, 5, 7, 12, 14, 15, 17, 23, 28 ,33,
23. S5.5 P263; 1, 2, 4, 6, 12, 15
24. S5.6 P 274; 1, 2, 3, 4
25. S6.1 P299; 1,2, 3, 4, 6, 8, 12, 14, 16, 24, 26
26. S6.2 P310; 1, 2, 5, 6
27. S6.3 P327; 1, 5, 6, 18, 19, 33, 35

END OF EXAM III MATERIAL

Webwork

This list will be updated from time to time as we do new material.

- Systems of Equations
- Row reduction
- Matrix Algebra
- Matrix Equations
- Inverse of a Matrix
- Elementary Matrices
- Determinants
- Vector Spaces
- Euclidian Vector Spaces
- Kernel and Range
- Linear Combination
- Linear Independence
- Basis and Dimension
- Rank of a matrix
- Linear Maps
- Inverse of a Linear Map
- Matrix of a Linear Map
- Least Squares
- Eigenvalues and eigenvectors