

MATH 310: FINAL EXAM TOPICS AND SAMPLE PROBLEMS

- Topics covered in the previous two exams
- Laplace Transforms and Inverse Transforms (section 7.1): # 10, 12, 18, 21, 27, 29, 32, 37
- Transformation of Initial Value Problems (section 7.2): # 5, 10, 17, 23, 24, 29, 32
- Translation and Partial Fractions (section 7.3): # 1, 3, 7, 21, 30, 39
- Derivatives, Integrals and Products of Transforms (section 7.4): # 1, 3, 5, 7, 13, 15, 23, 29
- Periodic and Piecewise Continuous Input Functions (section 7.5): # 1, 5, 9, 11, 15, 31, 37
- Impulses and Delta Functions (section 7.6): # 1, 4, 9, 17
- Introduction and Review of Power Series (section 8.1): # 5, 13, 15, 19
- Series Solutions Near Ordinary Points (section 8.2): # 3, 7, 17, 19

Final Exam: Wednesday, May 8, 10:15 am - 12:15 pm, in class, JEB 026

Please review your homework solutions, lecture notes and solved problems in class and during the review sessions.