

## Review for test No 3.

Here is a list of topics to be covered:

1. **The Laurent series and residues** (Section 2.5 of the textbook).  
Exercises: Pp. 150-152. 7, 9, 13, 22 d, 23 b
2. **The residue theorem and its applications** (Section 2.6 of the textbook).  
Exercises: Pp. 167-170. 2, 6, 11, 17, 26a
3. **Zeros of analytic functions** (Section 3.1 of the textbook).  
Exercises: Pp. 179-182. 3, 7, 11, 14, 21.
4. **Maximum modulus theorem** (Section 3.2 of the textbook)  
Exercises: Pp. 194-196. 3, 5, 6, 17
5. **Möbius (linear fractional) transformations** (Section 3.3 of the textbook)  
Exercises: Pp. 206-208. 4 e, 5b, e, 7a b,