

Alexander (Sasha) Teplyaev

MATH 340 SECOND MIDTERM EXAM QUESTIONS
Wednesday, April 25, (2007), 1:00-1:50PM

- Sections 3.3.1–3.3.2: All the definitions, theorems, corollaries without proofs.
- Section 4.4: All the definitions, theorems, corollaries without proofs.
- Section 4.5: All the definitions, and theorems and corollaries *with proofs*.
- Section 4.6: All the definitions, and theorems 20, 21, 22, 23 *with proofs*.
- Section 5.1: All the definitions, and theorems *with proofs*.
- Sections 5.2.1–5.2.3: All the definitions, theorems, corollaries without proofs.
- Sections 5.2.4: Two definitions of the Γ function (without a proof).
- Section 5.3.2: Hadamard's theorem and corollary without proofs.
- Section 5.4.1: Theorem 9 (Euler) *with proof*.
- Section 5.5: All the definitions, lemmas, and theorems without proofs.
- Section 6.1.1: The Riemann Mapping Theorem without a proof.
- Section 6.3: Theorems 6, 7 and Harnack's principle *with proofs*.
- Section 6.4.1: Definition and Theorem 8 without a proof.
- Section 6.4.1: problems # 1,2,3,4 (solutions will be discussed in class).
- All the homework problems for sections 3.3–3.4 and sections 4.3.3–6.1.1 (due dates from March 19 to April 20).