MA2321: Syllabus For Examination at the Annual Examination 2016

Section 4: Differentiation

All material in Subsections 4.2, 4.3, 4.4, 4.11, 4.13 is examinable, with the exception of the statements and proofs of Corollaries 4.26 and 4.27. Material in subsections not listed above is not examinable.

Section 5: The Riemann Integral

All material up to the end of Subsection 5.3 is examinable, including the definitions etc. beginning the section together with Subsections 5.1, 5.2 and 5.3.

Section 6: Euclidean Spaces, Continuity and Open Sets

All material in this section should be regarded as examinable with the exception of the proof of Theorem 6.20.

Section 7: Differentiation of Functions of Several Real Variables

All material in Subsections 7.3, 7.4 and 7.5 is examinable, with the exception of the following material: the proof of Theorem 7.9 (Chain Rule); the second example following Lemma 7.5 (i.e., the example concerning the differentiability and derivative of the function $\varphi: \operatorname{GL}(n, \mathbb{R}) \to \operatorname{GL}(n, \mathbb{R})$ defined so that $\varphi(A) = A^{-1}$ for all invertible $n \times n$ matrices A).