

University of Pretoria Yearbook 2016

Integration of functions of one variable 161 (MAT 161)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
Prerequisites	MAT 151
Contact time	3 lectures per week, 2 discussion classes per week
Language of tuition	English
Academic organisation	Mathematics and Applied Maths
Period of presentation	Quarter 3

Module content

Definite and indefinite integrals, the fundamental theorem of Calculus, the mean value theorem for integrals
Integration techniques: Integration by parts, trigonometric integrals and substitution, approximate integration and improper integrals, areas and distance. Elementary power series and Taylor's theorem. Parametric equations and polar coordinates.

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