

Wiskunde Mathematics

Sertifikaat

Certificate

Toegeken aan / Awarded to

**Gert Reinecke
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vir / for

**Gevorderde Wiskunde
Advanced Mathematics***

Uitslag / Result

82 %



Dr C Krick

NOVEMBER 2018



* See reverse / Sien keersy

*Kurrikulum

Calculus:

- Differensiasie, ook van trigonometriese funksies
- Produk-, kwosiënt- en kettingreël by differensiasie
- Integrasie
- Toepassings van Integrasie en Differensiasie:
 - Newton-Rhapson metode om nulpunte te bepaal
 - Eienskappe van 1^{ste} en 2^{de} afgeleide
 - Oppervlakte onder grafieke
 - Volume van omwentelingsliggaam
 - Inverse Trigonometriese Funksies met radiaalmaat

Algebra:

- Ontbinding van polinome
- Absolute waarde
- Skets van rasionale funksies
- Matrikse
- Binomiaalstelling
- Komplekse getalle

*Curriculum

Calculus:

- Differentiation, including trigonometric functions
- Product-, quotient- and chain rule for differentiation
- Integration
- Applications of differentiation and integration:
 - Newton-Rhapson method to calculate zeros
 - Characteristics of 1st and 2nd derivatives.
 - Area under graphs
 - Volume of solids of revolution
 - Inverse of trigonometric functions and radial measure

Algebra:

- Factorisation of polynomials
- Absolute values
- Sketching of rational functions
- Matrices
- Binomial theorem
- Complex numbers

Kursusgemiddeld / Course average: 65%