THE HAGUE

Exam Cover

Student name: _____

UNIVERSITY OF APPLIED SCIENCES

FACULTY TECHNOLOGY, INNOVATION & SOCIETY

ID-number:	Location: Delft			
Program:	Course / Test:			
Electrical Engineering	MATH			
Lecturer: J. op den Brouw	Date: Thursday 6 july 2017			
Second Lecturer: B. Kuiper	Time: 13:00 h – 14:30 h			
Group: EP21, EP22, EQ2D	Number of pages: 2 (including this page)			
Coursecode: E-MATH-th1	Number of questions: 3			
Wish this every year will receive.				
With this exam you will receive:	☐ Questions written on exam			
☐ Squared paper	□ Answer form ABCDE			
 Scratch paper 	□ Answer form Yes/No			
☐ Lined cover sheet	☐ Answer form Yes/No/Questionmark			
☐ Attachments:	□ Other:			
Allowed tools:				
Simple calculator	□ Drawing tools (ruler, pencil)			
□ Graphic/programmable calculator				
□ Computer	⊠ Books/readers: Reader MATH			
☐ Formula sheet(s):				
Attention: Please hand in your copy of the exam. Grading of examination: Total grading points is 60.				
	code, sorted per document code, sorted per student (in lined cover sheet)			
Important:				

For this exam, the rules of the Programme and Examination regulations apply. This document is present in the exam room.

This exam is printed double sided;

Write your name and studentnumber on all documents.

Question 1 (10 pt)

Calculate 1+1

Question 2 (30 pt)

Please find de antiderivative of the following functions:

a)
$$\int x \ln x \, dx \, (10 \text{ pt})$$

b)
$$\int \sin^2 x \, \mathrm{d}x \, (10 \, \mathrm{pt})$$

c)
$$\int x^2 dx (10 pt)$$

Question 3 (20 pt)

Given the function: $f(x) = x^3 + 3x^2 + 5x + 1$. Find the extremae.

Grading table

Question:	1	2	3	Total
Points:	10	30	20	60
Score:				