Exam Cover

THE HAGUE
UNIVERSITY OF

APPLIED SCIENCES

FACULTY TECHNOLOGY, INNOVATION & SOCIETY

Location: Delft

Student name: _____

	Location. Dent
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)
Module:	Number of questions: 3
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	⋈ Hand written notes:
☐ 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.	

To be handed in:

- ☑ All documents marked with name and ID-code, sorted per document
- $\hfill\square$ All documents marked with name and ID-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 primitives of the following functions:

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

b)
$$\int \sin^2 x \, dx \, (10 \text{ pt})$$

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.