Dashboard / My courses / MA-224-G 25H / Tests / Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars)

Status	Finished
Started	Thursday, 11 September 2025, 12:01 PM
Completed	Thursday, 11 September 2025, 12:23 PM
Duration	22 mins 18 secs
Marks	1.69/3.00
Grade	1.69 out of 3.00 (56.41 %)
Information	

Information

This page contains all the problems for this test. The very last problem asks you to contact the person in charge of the exam and tell him or her the 4-digit key given in the problem text. In return you will be given a 5-digit signing code which you must give as the answer to the problem.

This problem does not count towards the final score, but tests missing this code will not count towards the final grade.

The following rules apply:

- Total time allowed: 30 minutes. The test will automatically close if time runs out.
- UiA's usual rules in regards to cheating on exams apply.

Question **1**Partially correct
Mark 0.63 out of 1.00

Fill in the following truth table.

р	q	r	p∧(r∨(q⇒p))
False	False	False	False
False	False	True	False
False	True	False	False
False	True	True	False
True	False	False	False
True	False	True	False
True	True	False	False
True	True	True	True

Question 2	
Partially correct	
Mark 0.67 out of 1.00	

Complete the following division computations.

dividend	/	divisor	=	quotient	(remainder)
3441	/	190	=	Your last answer was interpreted as follows:	(Your last answer was interpreted as follows:)
-2481	/	181	=	-13 Your last answer was interpreted as follows: -13	(-128 Your last answer was interpreted as follows: -128)
Your last answer was interpreted as follows:	/	153	=	19	(106)
2045	/	Your last answer was interpreted as follows:	=	18	(29)

Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars): Attempt review | Matric Question **3** Partially correct Mark 0.40 out of 1.00 Consider the following EBNF grammar. Bee → Boa bus Hog Hog → map [Boa] { sea | Hog } Boa → egg { Hog | tie }+ | bag Bee Translate it into a grammar 4-tuple. Introduce new nonterminals for embedded iterations and optional parts. Your answers must be syntactically correct for marking. Insert spaces as needed for a better overview of your input. Sample 4-tuple Terminals = {"a", "b", "c"} Nonterminals = {"A", "B", "C", "X1", "X2"} Start symbol = "A" $Rules = \{ ["A", ["B", "a", "C"]], ["B", ["c", "X1"]], ["C", ["c", "X2"]], ["X1", ["B", "a"]], ["X2", []], ["X2", ["X2", ["X2", "a"]] \} \}$ Terminals = {"bus", "map", "sea", "egg", "tie", "bag"} Nonterminals {"Bee", "Hog", "Boa"} Start symbol "Bee' Rules = Your last answer was interpreted as follows: {bus, map, sea, egg, tie, bag} Your last answer was interpreted as follows: {Bee, Hog, Boa} Your last answer was interpreted as follows: Bee Your last answer was interpreted as follows:

Question 4

Correct

Mark 0.00 out of 0.00

Signing code

Before closing the test you must answer this problem with a signing code given to you by the person in charge of the test.

Tests missing this signing code will be ignored and will not count towards the final score.

Key: 596

Signing code: 48725

Your last answer was interpreted as follows:

48725

■ Technical test

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