

Latex test

In this test you can use all your course material and Internet, but not to ask help from other students. The goal is to give feedback to both you and the teacher what you master. You have 40 minutes to solve the tasks.

Write your solutions to a latex document (articletemplate.tex is recommended), translate and print it. Write each task into a subsection of its own (you can give them titles like "Task1", "Task2 ", etc.). Remember to put your name as an author!

1. Write the following kind of table:

Table 1: Average snow cover and minumum and maximum temperatures at Christams Eve.

Place	Avg.Snow	Min	Max
Helsinki	7cm	+6	-27
Oulu	20cm	+4	-31
Lappeenranta	25cm	+3	-25

2. Put the figure at <http://www.cs.joensuu.fi/pages/whamalai/sciwri06/liukuluku.eps> into your document as in Fig. 1. The width of the figure is 70% of the text width.
3. Write the following mathematical expressions. You can find symbols here:
<http://www.ift.uib.no/Fysisk/Teori/KURS/WRK/TeX/symALL.html>

(a) $y = ax^2 + bx + c$

(b) $P(A|B) = \frac{P(A)P(B|A)}{P(B)}$

(c) $S = \{a_1, a_2, \dots, a_n\}$

(d) $X \subseteq Y \subseteq Z$

(e) $(p \wedge q) \vee (r \wedge \neg p)$

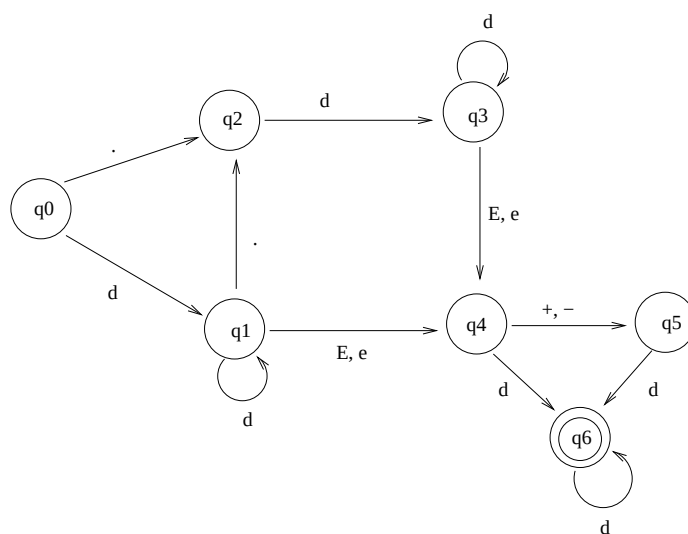


Figure 1: A finite automaton for recognizing decimal numbers.

4. You can find a couple of bibtex entries on <http://www.cs.joensuu.fi/~whamalai/research.html>. Put at least three of them into a bibtex database and generate a reference list by bibtex. To include all references, you must refer to them in your document.