

Informatics 1, 2nd midterm (2018-11-05)

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The answers should fit next to the questions, if you used a separate paper let us know clearly!

1. HTML / CSS

a) How to write CSS code embedded into the HTML code? Give an example! (2 points)

b) Write the HTML code of the following list: (2 points)

1. one
2. two
3. three

c) How do you make a link within the same HTML page but to a different part of the page? Give an example! (2 points)

d) Write the HTML and CSS code of the following table: (2 points)

a	b	c
0	1	2

The border should be red and the headers bold.

e) Write the HTML and CSS code of the following: (2 points)

This is a *word*.

The “word” should be blue if the cursor is on top of it.

2. Write the L^AT_EX code of the following formulas! (4 points)

a)
$$\sum_{k=0}^n q^k = \frac{q^{n+1} - 1}{q - 1}$$

b) $a^{(b^c)} \neq (a^b)^c$

c)
$$\left[\left(1 + \frac{1}{2} \right)^2 + 3 \right]^2$$

d)
$$\frac{1}{1 + \frac{1}{1 + \frac{1}{\dots}}} = \frac{-1 + \sqrt{5}}{2}$$

3. Write the L^AT_EX code of the following formula with matrices! (2 points)

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} a & c \\ b & d \end{pmatrix} = \begin{pmatrix} a^2 + b^2 & \\ & c^2 + d^2 \end{pmatrix}$$

4. Answer the questions (L^AT_EX)! (4 points)

a) What does the `\maketitle` command do?

b) How to use the `\ref` and `\label` commands? Give an example!

c) Which environment makes a table, how can you make a table?

d) Where does the name T_EX come from?