

Logics and Mathematics – 7th lecture

Exercise sheet

Preining Norbert

Don't use a calculator!

Problem 1 Convert the following numbers from base 10 to base 2 and base 16:
 $(50)_{10}, (2532)_{10}$

Problem 2 Convert the following numbers to base 10:
 $(12012)_3, (1D0F)_{16}$

Problem 3 Convert the following numbers to base 16:
 $(10110011)_2, (11001001)_2$

Problem 4 Carry out the following binary addition:

$(101100110)_2$	$(13F)_{16}$	$(7246)_8$
$+$	$+$	$+$
$(1110111)_2$	$(AB)_{16}$	$(1302)_8$
\hline	\hline	\hline
$=$	$=$	$=$