



Introduction to Computational Logic, SS 2006: Hints for Assignment 2

Prof. Dr. Gert Smolka, Dipl.-Inform. Mathias Möhl

Exercise 2.3 (Choice Function)

c) $- = \lambda x \in \mathbb{N}. \lambda y \in \mathbb{N}. C(\lambda z \in \mathbb{N}. x \dot{=} y + z)$

Exercise 2.4 (Normal Forms)

c)

$$\lambda xy. fxy \equiv \lambda x. fx \quad (\eta)$$

$$\equiv f \quad (\eta)$$

Exercise 2.5 (Lambda Elimination)

b)

$$\lambda xyz. y \equiv K(\lambda yz. y) \quad (\text{K})$$

$$\equiv K(\lambda y. Ky) \quad (\text{K})$$

$$\equiv KK \quad (\eta)$$