Logics and Mathematics – 4^{th} lecture
Exercise sheet

Preining Norbert

Problem 1 Prove the following equation:

$$\sum_{i=1}^{n}(2i-1) = n^2$$

Problem 2 Fibonacci numbers:

$$f_0 = 0$$
$$f_1 = 1$$
$$f_{n+2} = f_n + f_{n+1}$$

Prove the following equation:

$$\sum_{i=1}^{n} f_i^2 = f_n f_{n+1}$$