Logics and Mathematics – 13$^{\text{th}}$ lecture
Exercise sheet

Preining Norbert

Problem 1 Give Turing machines (graph and program) that accept the following languages:

- $aba^*b^*a^*ba$

- $(abb) * (abb)$

- $a^n ba^n, \qquad n = 3, 4, 5$

Problem 2 Give Turing machines (graph and program) that compute the following functions:

- $f(n) = 2n$

- $f(n, m) = n \cdot m$