

Problem 3 (30 points). Write a function **polynomial** that takes a list of integers **List(a_0, a_1, \dots, a_n)** as input and generates a function that evaluates $a_0x^{n-1} + a_1x^{n-2} + \dots + a_{n-1}x + a_n$ for a given integer x For example:

`assert(polynomial(List(3,2,1))(2) == 17)`

Problem 4 (20 points) Explain what tail recursion is.

Name: _____

Student number: _____