

Life Insurance 2 – practicals 2016/2017

Homework 1

Compute and plot the net premium reserves for:

- 1) Term insurance until 65 years with the net annual premium collected during the whole period.
- 2) Pure endowment insurance until 65 years with the net annual premium collected during the whole period.
- 3) Life annuity due deferred until the age 65 years with net annual premium collected during the deferment period.

Consider the sum insured $SI = 100\,000$, and the input ages $x = 25, 30, \text{ and } 35$ years. Use the unisex life tables ($TIR=1.3\%$) and the corresponding commutation functions.

Please send a PDF file with the results in the format *surname_name_hw1.pdf* to my e-mail.

DEADLINE: March 13, 2017