

## Life Insurance 2 – practicals 2017/2018

### Homework 3

Compute and plot the gross premium reserves for:

- 1) The endowment insurance until 70 years with the net annual premium collected during the whole period with  $SI = 1\,000\,000$ .
- 2) The life annuity due deferred until the age 70 years with the net annual premium collected during the deferment period with  $SI = 120\,000$ .

Consider the input ages  $x = 25, 30,$  and  $35$  years. Use the unisex life tables (TIR=1.3%) and the corresponding commutation functions. The expenses values are

Alpha = 5%,  
Beta = 0.8%,  
Gamma = 2%,  
Delta = 0.5%.

**Please send a PDF file with the results in the format *surname\_name\_hw3.pdf* to my e-mail.**

**DEADLINE: May 14, 2018**