AT731 – Spring 2024 – Homework #2

Due by February 12, 2024 @ 6:00PM EST (UNIX 1707778800)

• Using Makeham's Law with parameters

A=0.0001234; B=0.000004; c=1.122

for this and later homework problems (so save your work!):

- Construct a table that shows μ_x , p_x , q_x , and ℓ_x , for all integral ages 20 to 120.
 - Use $\ell_{20}=1,000,000$ as the starting value for the ℓ_x .
- Determine the curtate life expectancy, e_x , for all ages.
 - o Use ω =120 in your calculation of life expectancy
- You can use any software to perform this calculation, but I recommend Excel.