Please return this page with your signature. Please write your name and student number at the spaces provided:

Name: _____   **Student ID:** _____

I certify that this is my own work, and that I have not copied the work of another student.

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Suppose that a life table follows the following formula:

$$\ell_x = 1000\, e^{-0.01x},\ \text{for } x \geq 0.$$

1. Calculate the probability that a person now age 35 will survive to reach age 65.

2. Calculate the probability that a person now age 35 will survive to reach age 65, but dies the following 10 years.

3. Calculate e_{35}, the curtate expectation of life for a person now age 35.