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 you are given:

$$S_X(x) = 1 - .005x - .00005x^2.$$

1. Construct the ℓ_x, d_x, q_x and p_x columns of the corresponding mortality table for ages 0, 1 and 2. Use a radix of 100,000.

2. Using the table above and assuming a Uniform Distribution of Death (UDD) over each year of age interval, calculate the following:

   (a) $d_{1.4}$

   (b) $_{0.25}q_1$

   (c) $_{1.5}p_0$

   (d) $\mu_{1.35}$