

MATH 3630 - Actuarial Mathematics I
Fall 2010 - Valdez
Homework No. 2
due Monday, 6:15 PM, 27 September 2010

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.

Signature: _____ Date: _____

A mortality table is constructed according to a constant force assumption:

$$\mu_x = 0.001, \text{ for } x > 0.$$

1. Calculate the columns of values for ℓ_x , d_x , q_x and p_x for ages 20, 21 and 22. Use a radix of 10,000.
2. Extend the table above to include the columns of values for T_x^* , Y_x^* and L_x^* , also for ages 20, 21 and 22.