

MA 418 ~ ACTUARIAL MATHEMATICS I  
CH 4 - CONSTANT MORTALITY HOMEWORK

NAME: \_\_\_\_\_

Consider  $\mu_x = \mu$  (constant force of mortality), then find  ${}_t p_x$ ,  $\overset{\circ}{e}_x$ ,  $\overset{\circ}{e}_{x:\overline{n}|}$ ,  $e_x$  (again, from memory ... call it review). Also find  $\bar{A}_x$ ,  $\bar{A}_{x:\overline{n}|}^1$ ,  $A_x$ ,  $A_{x:\overline{n}|}^1$ .

Consider  $q_x = q$  (constant mortality rate, aka uniform survival), then find  ${}_t p_x$ ,  $\overset{\circ}{e}_x$ ,  $e_x$  (again, from memory ... call it review). Also find  $\bar{A}_x$ ,  $A_x$ ,  $A_{x:\overline{n}|}^1$ .