

MA 418 ~ ACTUARIAL MATHEMATICS I
CH 5 - 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 , \bar{A}_x , $\bar{A}_{x:\overline{n}|}^1$, A_x (again, from memory ... call it review). Also find \bar{a}_x , $\bar{a}_{x:\overline{n}|}$, \ddot{a}_x , $\ddot{a}_{x:\overline{n}|}$.

Consider $q_x = q$ (constant mortality rate, aka uniform survival), then find ${}_t p_x$, $\overset{\circ}{e}_x$, e_x , \bar{A}_x , A_x (again, from memory ... call it review). Also find \bar{a}_x , \ddot{a}_x .