STAT 575

Practice Problem for Exam 1 (not to be turned in)

An age-at-failure random variable X has a force of mortality defined to be

$$\mu_x = \frac{1}{2(100 - x)}, \ 0 < x < 100.$$

- (a) Give an expression for $S_X(x)$.
- (b) Find $f_{36}(t)$.
- (c) Compute ${}_{20}p_{36}$. (d) Compute \mathring{e}_{36} .