Non-life Insurance Mathematics HW1. Willian LEV-function E[X:X] properties: As 1. and 4. were already proven, here is the proof for 2, 3. and 5. property. 2. \*\* EX = E[x; x] + e(x) (1- Fx(x))  $e(x) = \frac{s(1-F_{\times}(+))d+}{1-F_{\times}(\times)}$ EX - 1 - Fx (y) ] dy + \$\frac{5}{1-Fx(y)} dy \\ 1-Fx(x) = = J[1-Fx(y)]dy + J[1-Fx(y)]dy = S[1-Fx(y)]dy= 3. Similarly to the end of 2. preperty proof

if x + p: kin F[x; m] = T lim F (min (x; x)) = 3 E (min (X; 0)) = EX

