Custoners who is visk adverse are villing to pay premions that are higher than expected loss they like sore small loss (premion) than possibility of large loss.

Utility function of Visk adverse people should be increasing, with decreasing driver derivatives.

(concave down)

U(x)

$$E(x) = PE(3)$$

$$E(\chi^2) = .05 E(3^2) = .05 [V(3) + E(3)]$$

$$= .05 \left[\frac{10^2}{12} + 7.5^2 \right] = 3.23$$

$$\theta = 1.65 \frac{E(s)}{JV(s)}$$

$$C = (1+0) E(S)$$

$$= (1.0218) E(X)$$
for all.

$$C = 1.0218 E(X)$$
 per policy holder
$$= 7.6635$$

Unissing Unitity functions
$$U(x) = x^{-1}$$

Welth = 30

Premium $C = x^{-1}$

This is the second of the second of

$$= \frac{(.05)}{20} \frac{3}{3} \frac{(30-7)}{1.7}$$

vill boy
ThsbVa4ce

Sent

per-year - & Dischete Time settilis calculate of to Ø(4) = 1- e e - et Mx(7) = 1 C = 7.6635 $\frac{105}{-C5} \left(\frac{105}{605} - \frac{105}{105} \right) = 1$ She for 7 to find of use \$(4) 2 1- e tu Make some you can do the

same problems for

Continuous - time / compound poisson

Model