0 HOME WORK-4 (10.3) (odven. (mamma (5,1) X=5, N=1 x = y accidents in a month 2(x) = 56x-1e-tdb 2 2 1 2 1 <x = \$000 5 × 4 = 9. a Estimador -けんと Q = 6 {0/x} = Lx = 9 = 4.5. Postorior suise > F(8) var { Oxy $\frac{1}{\sqrt{2}} = \frac{q}{4} = 2.20^{\circ}$

3 (3) (5.1) Buluen. 6(5c) = 1.5 Joc. 06 20 21. popos Pdt. f(x) = P(x 6x) 1.5 600) = x3/2 . Then we know $\frac{b(x)}{x} = \frac{0}{(y)} \frac{3}{3}$ 6 cdb. FICUI = PCW & dl) = PCXLF Cul) = F(F- Cul)) Fu (u) = u Deverty bac -Thun : Fu (du) = Fu (du) = 1 U=0.001 & Frandom workable X IO.01

Griven

Fibrit mechanic
$$\lambda = \frac{1}{5}$$
.

Second mechanic $\lambda = \frac{1}{20}$ so y times factor

 $\lambda = \frac{1}{20}$ so $\lambda = \frac{1}{20}$ so

$$\Rightarrow E(x^2) = \frac{2}{\lambda^2} \operatorname{q yar } Cx = \frac{1}{\lambda^2}$$

606) =: SI-e 5x

a(t) = 5

moment of generation
$$\phi(t) = E(e^{tx}) = \frac{\lambda}{\lambda^2}$$

$$\Rightarrow E(x^2) = \frac{2}{\lambda^2} = \frac{\lambda}{\lambda^2} = \frac{1}{\lambda^2}$$

$$M \mid +$$

$$\int S e^{-5x}$$

$$\int G(x) = \int C(x^2) = \frac{1}{\lambda^2}$$

$$\frac{e^{\lambda x}}{x \ge 0}$$

ECN = == == 008 yar(nl = 1 = 0.04.

M2 L 6(11) = 520 e 2016 E(13) = 2 = 0.005. Var (11) = 01-00/2012 = 0.0025 Q(b) = 20 20-t2 Now t2 = 561 we get. Q(t) = 20 = 5

20-t 5-5t_r