A software from produces accounting programs. The proposability that one of their kon Had from a) Find the probability that exactly a pageomis are defedive.

b) Find the probability that at least 80% of the programs are working properly.

c) Lot x dende the number of programs that are watering properly. Find the probability distribution function of x what type of distribution is it?

d) what is the expected number of pageoms that are violating properly. X1, X21. XM be a Random sample drawn from a Paisson distribution with paramoders, unknown ( Po XCP(X), the politic p(x, X)= Xx e-X, X=0, 1..., a) Find the maximum likelihad estimata, I for it (6) 3, it an absolutely correct estimater? Explain c) Find he afficiency of I, e(I). d) At the significance level Le(0, e), find the most powerful test for testing: Ho: k=1, against H1: k=2 2) k=B m= 26 binomiala P=0.2 b) C20 (0.2)3 (0.8)x7 thum 10-4-1 <= milting > 1-4 cel mult K-4 3 CK (0.2) K. (6.8) 20-K  $\times \left( \begin{array}{c} k \\ C_{26} & (0.2)^{k} (0.8)^{20-k} \end{array} \right) \frac{1}{k=0.20}$ Sch Sists binomials d) 0.1×20=4 se apleapa sa fae de feche 20- 48 = 16 -> mundrel de programe core fundioners à bine