Probability of an event range when all events are equally probable $P(a \le n \le 1) = \frac{1}{b-a}$ Chiforn Experted a+bExperted a+b 2 Probability that a failure will occur before time t

when mean time is ?

exponential $\varrho(\chi \not = t) = 1 - e^{\lambda t}$ (lime to next event) Probability that it want occurs before not time with k avent is x) $F(x) = 1 - \begin{cases} x-1 - kox \\ e & (kox) \end{cases}$ $F(x) = 1 - \begin{cases} 1 - kox \\ 1$ it will last at least x time or after (lime to uto event)

MGI P = 1 Serviceting hr L= NW $9 + 9^2(1+6^2x^2)$ 2 (1-9) MM/ -> 8-1/x Ph = (1-9) 9 Number of parallel System capacity
(mur queue
size) M M I O O (may no of people) Interarrial distribution distribution