(MM): (ON FE FO) Pro . Probability of nousbornes to Elm 2 - mean agrical rate - mean service rate 8 - traffée Entensily (or time for which sower is busy). 1. The odle theme of the ous to mer server = Po = 1-9 d. Aug no: of customers &n the s/s g 45 = ga = 2 8. Arg no: of customers  $L_2 = \frac{g^2}{1-g} = \frac{\chi^2}{\mu(\mu-\lambda)}$ 1. Aug weighting time of  $N_s = \frac{1}{\mu - \lambda} = \frac{1}{\lambda} L_s$ 

5. Avg waiting time of austomers  $Nq = \frac{\lambda}{\mu(\mu - \lambda)}$ 6. The prob: that the no; of un tomers

In S/s exceeds N g(n>N) = 1 N+17. The prob that no: of cus to mers = (2) N
& guene exceeds N, P(n) = (4) 9. A barber shop with one man takes exactly 20 mis to complete Rairant. Is austomers arrivé in posseon point