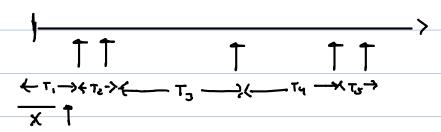


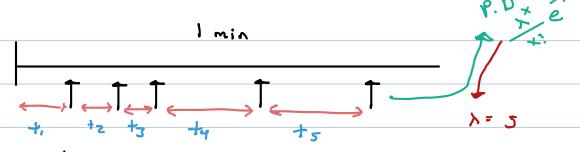
$$\int = \lambda * T_s = \frac{\lambda}{\mu}$$

Exporuntial Dist

gives prob. distribution of times between event;



If the arrively follow a poisson distribution, the inter-orrivel times follow on Exp. Distribution

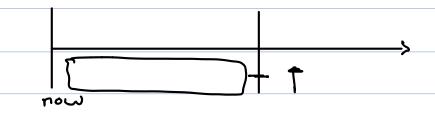


5 costomers/min

Probability [we observe the first arrivel after 60 seconds]

Probability [no arrivels hoppen in the first 60 seconds]

$$\frac{(2.5)^{8}}{0!} = e^{-2.5} = 0.682$$



herop

· Population is infinite (Markov property)

-> Queu size is infinite

M/M/1
Arrivel 7 # of servers Motion Departure Motion
Morken
Mahar
$M / \Omega / 1$
M/D/1 7 Deterministic
Veterni Nist[C