

11. Application problems based on the Poisson distribution.

**Ques:** In a cafe, the customer arrives at a mean rate of 2 per min. Find the probability of arrival of 5 customers in 1 minute using the Poisson distribution formula.

$\lambda$	2
x	5
Poisson Distribution	
1	0.270670566
2	0.270670566
3	0.180447044
4	0.090223522
5	0.036089409
6	0.012029803
7	0.003437087
8	0.000859272

