التاريخ :

Task-8

الموضوع :

Random Variable: outcomes ⇒ numbers

Why:? to use Mathematical on probability

passion process: $E(x) = \lambda^{cars/hour} = n \cdot p$

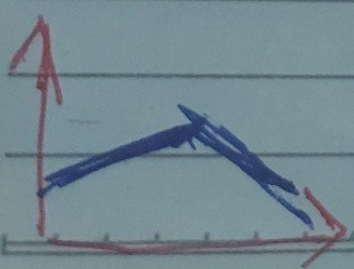
the events are independent of each other.

n ← number of tries

p ← probability of success

binomical distribution: (mean) Calculated by multiplying the number of trials (n) by the probability of successes (p). (What diff?)

law of large numbers: avg of the results obtained from large number.



التاريخ :

الموضوع :

discrete R.V is for Counting

Continous R.V is for measuring

prob(Score) = 70% | prob(miss) = 30%

(f) (1-f)

P(Exactly 2 score in 6 attempts) = $\binom{6}{2} 0.7^2 0.3^4$

k score, n miss

$\binom{n}{k} f^k (1-f)^n$

$P(x=0) = \binom{6}{0} 0.7^0 \cdot 0.3^6 = 0.17$

1	1.0%	3	18.5%	5	30.37%
2	6.0%	4	32.4%	6	11.8%

Cant Do it :)