Statistics Assignment - 2

9.) Answer

The given question is about how many times a particular event takes place so we will be using poisson's distribution for the same.

$$P[X=x] = \frac{e^{-m}m^x}{x!}$$

Let the time is 't'

So the ang the raindrops = tx20x5 [5 in inches]

= 100t

= 100t/20

= 5 times.

: we have are finding out probability for No raindrop so, [x=0]

$$P[\alpha=0] = \frac{e^{-5} \times \frac{25}{5}}{0}$$

$$= e^{-5} \left[\text{probability} \right]$$

92) Answer

again if,

ol	X	P(X)	P(Y)
2	3	V7	17
3	4	1/7	1/7
4	5	1/7	1/7
5	6	V#	V7
6	7	1/4	1/7
7	Say (12)	1/7	1/7

all the values of x 4 Y have equal probabilities.