## Answer on Question #60453 – Math – Statistics and Probability

## Question

Define the following terms: (i) Geometric distribution (ii) Binomial distribution (ii) Continuous bivariate distribution

## Solution

(i) The *geometric distribution* models the number of failures before one success in a series of independent trials, where each trial results in either success or failure, and the probability of success in any individual trial is constant.

(ii) *Binomial distribution* is probability distributions for which there are just two possible outcomes with fixed probabilities summing to one.

(iii) The *continuous bivariate probability distribution* for *X*, *Y* is a probability distribution that gives the probability that each of *X*, *Y* falls in any particular range of values specified for that variable.

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