Assignment

1. How do you find the probabilities of normal distribution?

2. For a certain normal distribution, the first moment about 10 is 40 and the fourth moment about 50 is 48. What is the Expectation and Standard deviation of the distribution?

3. X is normally distributed and the mean of X is 12 and standard deviation is 4. Find probability of the following:

4. Write the mgf of exponential distribution with mean 0.5.

5. We have given the mgf of a distribution is given by 1/(1-2t)4. Identify the find its mean and variance.distribution and hence

6. Define log-normal distribution.