

Lab Nr. 7, Probability and Statistics

Descriptive Statistics

1. Generate N random numbers uniformly distributed on (a, b) . Find
 - a) the grouped frequency and relative frequency distribution;
 - b) the histogram;
 - c) the frequency polygon;
 - d) the arithmetic, geometric and harmonic mean;
 - e) the median;
 - f) the mode;
 - g) the quartiles;
 - h) the variance and standard deviation;
 - i) the centered moments of order 1, 2, 3 and 4.
2. Same problem for an exponential distribution, $Exp(\mu)$.