Lab Nr. 3, Probability and Statistics Discrete Random Variables

1.

- Statistics Toolbox, pdf and cdf;
- \bullet disttool.
- **2.** Plot on the same graph the pdf and the cdf of a random variable X having a binomial distribution of parameters n and p (given by the user).

Application

A coin is flipped 3 times. Let X denote the number of heads that appear.

- a) Find the probability distribution function of X. What type of distribution does X have?
- b) Find the cumulative distribution function of X, F_X .
- c) Find $P(X \le 2)$ and P(X < 2).