Miles Fricker (10p, no plots)

Matlab Assignment 4.2

(a) Plot the probability mass function and the cumulative distribution function of a binomial distribution for a few different values of the parameter p.

How does their shapes changes as the function of p?

For the probability mass function, as p increases, the height of the graph increases as well. Also, the whole shape of the function moves to the right as p increases. The general shape, though, stays the same. For the cumulative distribution function, the shape stays the same as well. The whole function just moves to the right.

(b) Plot the probability mass function and the cumulative distribution function of a geometric distribution for a few different values of the parameter p.

How does their shapes changes as the function of p?

The probability mass function of a geometric series becomes steeper as P increases. The shape becomes more linear as P decreases. The cumulative distribution function becomes more linear as P increases and more like the pmf as P decreases.