(a) The probability distribution of a random variable X is shown in the table, where p is a constant. 0

P(X=x)p 3p

Two values of X are chosen at random. Determine the probability that their product is greater than their sum. [5]

Y are chosen at random.

It is given that $P(Y_1 = Y_2) = 0.02$.

Find $P(Y_1 > Y_2)$.

A random variable Y takes n values, each of which is equally likely. Two values, Y_1 and Y_2 , of