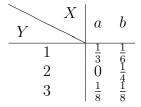
Worksheet

Please email your completed worksheet to conor.houghton@bristol.ac.uk.

Q1 - marginal and conditional distributions

Work out the marginal probability distributions and the x=a conditional probability distribution P(Y|X=a) for



Q2 - Working out entropy and information

Let p(x, y) be given by p(0, 0) = p(0, 1) = p(1, 1) = 1/3 and p(1, 0) = 0. Find H(X), H(Y), H(X|Y), H(Y|X), H(X, Y), H(Y) - H(Y|X) and I(X; Y).