MTH224 3/3/23 - Law of total expectation: [[[E[X1X]]=[X] - IF X and Y are independent, [XY]-EXTEX # [= [xx] = 2 2xypxx(x,y) - 5xpx(x) 2ypx(y) FIF X 2nd y are insependent ?

-P((XEA)A(YEB))-P(XEA).P(YEB) -Cov(x, y)=E[XY]-E[X]E[Y] IF X and Y are independent, E[XX]=E[X]E[] So (ov(X, Y) = 0 X~NB(r,p); E[X]== Var (X) = (-1) *R.V. X is continuous