

IV) IE [x²y4]: We apply Issorlis Theorems [E[x²y4]: ZII [E[xixi]. This sum has 5!! + 15 terms. Only and of these terms will be of the form [E[x2] [E[y2]2] and the for each other term, we have the form

[E[xy] [E[y^2]. So, we can write that

[xy] = [E[x^2] [E[y^2]^2 + 14 [E[xy]^2 [E[y^2]]

= 0x oy 444 oy [poxoy]^2 = 0x oy (1+14p^2) Thus [[ [xyy] = 0x20y (1+14p2)