

JYIX (YIX) = TXY (XIY) = ZX = ZX OCY EXCI - Shy(kiy): 30 064641 1 Shy(kiy): 30 064641 1 Shy(kiy): 30 06461 1 Shy(kiy): 30 06461 1 Shy(kiy): 30 06461 1 Shy(kiy): 30 06461 JX14 (X14) = Jx4 (X14) = Z(1-4) = Z(1-4) = Z(1-4) Jymery (YIM) = /X /y = in in in the 01.461 x Jx14 (X14) - 1 - x dr = 8888 5-3.41 = Jy2/1/k(y1x)dy= Jx2/4: 3/3/2 = x3 - x3 (E(y2x))=). 623 Vac(x/y) = Jx2 fx/y(x/y)dp= d'x2 1,= , 1-43 = (+44\*43) 3(1-4) 3(1-4) 4+44+442-3-64-342 b) dy(4): Si day(x,4) dy= 1/2/2/2 = 2/6/5 = [26/4] 0 = 1/2/14 c.) of x14 (x14) = fry (x14) = 2 (x14) = [1-4] = (1-4) d) [[x/4:4] = [x/x/(x/4)/x = [1-4 0 < 4 < 1) Elos: [[1/4] Bhus = / 1-4 fy(4)dy = / 1-4 (e(1-4)) = /(1-4)2 = = Si = - \frac{1}{2} - \frac{1}{2} (45/4)dy) = \frac{1}{2} - \frac{1}{2} \Interpole \ e) ElkJ= ElyJ = 1-ElkJ = 3ElkJ=1 => [ElkJ=1/3] Jx4(x,4): {1 08482,0Exe 14 J4(4): Jo-42 Jx4(xid) = [1-4/2 0642] fx14 = 1-4/2 2-4 06 x 51-4/2 2x = x2/4/2 (2-4)2 = 2-4 06452

Elx14]: x dx14 dx = 1/2 2x = 2-4 0 422 ELX3. Jo 2-4 (4-44) dy = 2-4 Jo 4 444): 2-4 E(Y) = 2-ELYJ EL4]= Jo'(14) dx (20) l= 1-Elx3 => EX]= Z-1+ECA3

## Problem 8)

E[X] = .3331

## Problem 9)

E[X] = .328

E[Y] = .664



