8f) with the given f(x,y), the marginal distribution of x (analogously y) is f(x)= k + (x) + K[x]f + (y)|y| |x|<1= k + (x)= k + (x)The conditional distribution given y=0 is f(x) = k \phi(x) \phi(0) $\frac{1}{(0)} = (x) - \alpha(x)$ When y = ±1, $f(x) = \frac{k \phi(x) \phi(x)}{k \phi(x)} = \phi(x) - \infty (x co)$ When y = :.0.5 (analogously -0.5) $f(x) = \frac{k(\phi(x))\phi(0.5) + 0.7(x)}{k(\phi(0.7) + k0.5) + 0.7(x)} |x|(x)$

= $K\phi(x)\phi(0.5)$ 1×1>1 K \$(0.2) + 0.2 K] \$(x) 1x]

who k is s. E xy dx dy = 1