第3周第二次作业. 中文教献 P86-87 1. P13=k3=4, K=1.2.3.4 **若3=1. 叭η=1** 芳多=2. 刚 P (7=13= P (7=23=== 芳子3. 刚P(り=k3=g, K=1,23 芳子4 PP P17=k3=4, k=1.23,4 故(到的解码初) (3,7) (1,1) (2,1) (2,2) (3,1) (3,2) (3,3) (4,1) (4.2) (4,3) (4.4) 边缘各布: 7 13= k3= 4, K=1.2.3,4 P17=13= 25 , P17=23= 13, P17=33= 12, P17=43=16 4. p(x,y)= f(x+y) x,y>0 fun)流復函數与方连续》pth.y)对弦续 $\int_0^{+\infty} \int_0^{+\infty} p(x,y) dxdy = \int_0^{+\infty} dy \int_0^{+\infty} \frac{f(x+y)}{x+y} dx$ = 1 odt 1 t fit) dx (tr. t= x+y) = $\int_{1}^{+\infty} f(t) dt = 1$ => pw.y)为驿后还度还读

b.
$$p(x,y) = cxy^2$$
, $0 < x < 2$, $0 < y < 1$ 为流传函数

(1) $\int_0^1 \int_0^1 cxy^2 dx dy = 1 \Rightarrow \int_0^2 \frac{c}{3} x dy = 1 \Rightarrow 0 = \frac{2}{3}$

(2) $p(x) = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{12} \cdot \frac{1}{3} \cdot \frac{1}{2} \cdot \frac{1}{3} \cdot \frac{1}$