35. 
$$E(X|\eta=\pi)=\frac{n+\alpha}{2}$$
 $F(X|\eta)=\frac{n+\alpha}{2}$ 
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 $F(X_1|X_1
 $F(X_1|X_1)=\frac{n+\alpha}{2}$ 
 $F(X_1|X_1
 $F(X_1|X_1$$$ 

Tu, (u, v) = (10 - (10)) ... , U U XZ=

50 -  $f_{uv}(u,v) = f_{x,\gamma}(uv) |J_{i}(u,v)| + f_{x,\gamma}(v,w)|J_{i}(u,v)|$ 5 ( f. (y, y2) = fx, x2 (e, ances x1) [J, (y, y2)] 二人人, 在主, 且满正儿的,门部 53 DF (x) = P(Zn \ x) = P(max(x, 'X... Xn)2/- \ \ ) X SOPT, FAIX = 0 -670は、上が二一(P(X))~1一点) =1- (1- 1/2)20 \$10-700 10t, Fzn(x) -7/1-e xxx

(. (a)  $p(\theta) = \int_{0}^{b} \frac{e^{i\theta x}}{b-a} dx = \int_{0}^{b} \frac{\cos \theta x}{b-a} dx + i \int_{0}^{b} \frac{\sin \theta x}{b-a} dx$ = 5ml 5m(b0)-5h(a0) # illes(0b) tilbs(a0) - eibo eiab
i o (b-a)
: (-a, a/上於的於於为 PGL Shap (b) I(0)= 1 / 10 x2+1 dx = 2 for Cx 0x dx I (0) = 2 / the x5n0x/x = 2 Stashex dx + 2 Shex dx - - + 2 / + 25,0x dx I'(9)= = = ( = [6] :. I col: C, e to + Ge To1= a Ilo1= a : ICol: de-0 070 : ICol= de-101 · · P(0)= pin - a(0)

(c) Plate Eeiox = Jere eiox & xol e-lada

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(1)  $P_{X}(\theta)$ :  $\int_{0}^{\infty} e^{i\theta X} dx = \int_{0}^{\infty} \cos \theta x e^{-ix} dx + i \int_{0}^{\infty} \sin \theta x e^{-ix} dx$   $= \int_{0}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty} \sin \theta x = \int_{0}^{\infty} \sin \theta$ 

(c)  $f_{X,Y}(x,y) = f_{X,Y}(x) = \int_{-\infty}^{+\infty} f_{X}(u) f_{Y}(u-u) du = \frac{1}{2} e^{-\frac{1}{2}X}$   $f_{X,Y}(x,y) = \int_{-\infty}^{+\infty} e^{\frac{1}{2}X} e^{-\frac{1}{2}X} dx = \frac{1}{1+\theta^{2}}$   $f_{X,Y}(x,y) = \int_{-\infty}^{+\infty} e^{\frac{1}{2}X} e^{-\frac{1}{2}X} dx = \frac{1}{1+\theta^{2}}$   $f_{X,Y}(x,y) = \int_{-\infty}^{+\infty} e^{\frac{1}{2}X} e^{-\frac{1}{2}X} dx = \frac{1}{1+\theta^{2}}$ 

(0. ix X1~ (auchy (moa)

2) Px(at e imo-alol

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