H14閏8 $\overline{H}(x,y) = \min\{F(x), G(y)\}, H(x,y) = \max\{0,F(x)+G(y)-1\}$ P(+----)=P(7-1(U) < x, G-1(U) < 4) $= P(U \leq F(x), U \leq G(y))$ = P(U \le min(F(x), G(y))) = min(F(x), G(x))= H(x,y) P(F-1(U) <x, G-1(1-U) <y) = P(U < F(x), 1-U < G(y)) $X = P(\{1-G(y) \le U \le F(\infty)\} \cup \{F(\infty) \le 1-G(y)\}$ $\begin{cases}
= P(1-G(\pm) \le U \le F(x)) \\
= F(x) - (1-G(x)) = F(x) + G(x) - 1
\end{cases}$ = P(1-G(8) = U = F(2)) + P(F(a)=1-G(4)) $\int P(\pm G/y) F(x) + G(y) - 1 \quad \text{if } 1 - G(y) \leq F(x)$ a. w.

= hax (F(20)+G(8)-1, 0)

$$H(x,y) \leq H(x,y) \leq \overline{H}(x,y)$$

$$\max_{X} \{0, f(x) + G(y) - 1\} \leq \frac{1}{2}$$

$$P(X) = \lim_{X \to \infty} H(x,\infty) \qquad H(x,\infty), H(y,\infty) \geq H(x,y)$$

$$= \{u \in G(y) = H(\omega,y) + H(\omega,y) - 1\} \leq H(x,y)$$

$$\max_{X} \{0, H(x,\infty) + H(x,\infty) - H(x,y) + 1\}$$

$$= \frac{1}{2} \frac{H(x,y) - H(x,\infty) - H(x,y) + 1}{2}$$

$$P(X \leq Y \leq X_2, J_1 \leq Y \leq Z_2)$$

$$P(X \leq X_2, J_1 \leq Y \leq Z_2) + P(Y \leq D_2) - P(X \leq X_1) - P(Y \leq D_2)$$

$$= \frac{1}{2} \frac{H(x,y) - P}{2}$$

$$P(X \leq X_1, X_2 \leq Z_2) + P(X \leq X_1) - P(X \leq X_1) - P(X \leq X_2)$$

$$= \frac{1}{2} \frac{H(x,y) - P}{2}$$

$$P(X \leq X_1, X_2 \leq Z_2) + P(X \leq X_1) - P(X \leq X_2) - P(X \leq X_2)$$