$$\begin{aligned} &H22 \prod_{i=0}^{12} 8 \int_{\delta} (x,y) = \begin{bmatrix} \frac{1}{3} (1+2x+2y) & 0 \le x, y \le 1 \\ 0 & 0, w, \end{bmatrix} E \\ &(1) \int_{\delta} f(x,y) dy = \int_{\delta}^{1} (1+2x+2y) dy = \frac{1}{3} \left[ (1+2x) \frac{n}{n} + \frac{n}{n} x^{2} \right]_{\delta}^{1} = \frac{1}{3} \left[ (1+2x+1)^{3} + \frac{2}{3} (x+1)^{3} + \frac{2}{3$$

= 26

$$P(X+Y) = \int_{0}^{4} \int_{X,Y}^{4} (x, 4-x) dx$$

$$= \frac{1}{3} \int_{0}^{4} \frac{1}{4} + 2x + 2(y-x) dx$$

$$= \frac{1}{3} \int_{0}^{4} \left[ y + y \right]_{0}^{4} = \frac{1}{3} (y+y^{2}) \Rightarrow \frac{2}{3} \frac{3}{3} \frac{$$