Cân 1 (28)
$$P(0,0) = 0.2, P(1,0) = 0.3, P(0,1) = 0.5, P(1,0) = 0$$

$$P(x = 1 \mid Y = 0) = \frac{P(x = 1, Y = 0)}{P(Y = 0)} = \frac{0.3}{0.5} = 0.6$$

$$Cân 2 (31)$$

$$Ad a) P(x + Y > 1) = \begin{cases} \int 6x^2y \, dx \, dy = \frac{9}{10} \end{cases}$$

$$Ad b) P(x > \frac{1}{2} \mid x + Y > 1) = \frac{P(x > \frac{1}{2} \mid N|x + Y > 1)}{P(x + Y > 1)}$$

$$\int_{10}^{10} \int 6x^2y \, dy \, dx = \frac{3}{30/40}$$

18 b)
$$P(x \gg \frac{1}{2} | x + y \gg 1) = \frac{P(x \gg \frac{1}{2} | n|x + y \gg 1)}{P(x + y \gg 1)}$$

 $= \frac{\int_{1/2} \int_{1/2} 6x^2 y \, dy \, dx}{9/10} = \frac{33/40}{9/10} = 0.91667$

18 c)
$$\int x | y = \frac{1}{2} (x) = \int \frac{1}{3} (x, \frac{1}{2}) = \frac{3x^2}{1 \cdot (\frac{1}{2})}$$

 $\int y (y) = \int \int y(x, y) dx = \int \int 6x^2 y dx = y(2x^3|_0^1) = 2y$

$$\int_{-\infty}^{\infty} (x) = \frac{3x^2}{1} = 3x^2$$

$$E(x) = \frac{1}{2} = \int_{-\infty}^{\infty} x \int_{-\infty}^{\infty} (x) dx = \int_{0}^{\infty} 3x^3 dx = \frac{3}{4}x^4 \Big|_{0}^{1} = \frac{3}{4}$$

$$0.5d$$

0.5 d

Câu 3: (2a)

$$f = \frac{112}{178} = 0.6292$$
, $n = 178$, $\lambda = 0.05$
Ho: $p \le 0.6$ hoad Hop = 0.6
H1: $p > 0.6$

$$H_{1}$$
: $P > 0.6$
 $Z = \frac{(0.629 - 0.6) \sqrt{178}}{\sqrt{0.6 (1-0.6)}} = 0.795$
 $V_{2} = \frac{(0.629 - 0.6) \sqrt{178}}{\sqrt{0.6 (1-0.6)}} = 0.57$

Câu 4 (28) n = 256, \(\pi = 16425 \), s = 226.8281 , 1-2=958 (05 = 196 05 d 27,79 $\varepsilon = 1.69. \frac{226.8281}{\sqrt{256}} = 23.96 \times 0.5 d$ Khoang 3L: [1618.54; 1666.46]0.5 đ Câu 5 (18) r= 0.923 0.5 đ Y = 0.328Z + 14.967