-. A: 有工作: B, 强推. B. 中推. B, 强推

P(A18,)=08 P(A18,)=04 P(A183)=01

P(B,)= 0.7, P(B2)=0.2; P(B3)=0.1

(1) P(A)= EP(A|Bi)P(Bi) = 0.8 x 0.7 +0.4 x 0.2 + 0.1 x 0.1

0

(2) $P(B, 1A) = \frac{P(A,B_1)}{P(A)} = \frac{P(A|B_1)P(B_1)}{P(A)} = \frac{0.8 \times 0.7}{0.65} = 0.8615$

G) $P(B_3|\overline{A}) = \frac{P(\overline{A}B_3)}{P(\overline{A})} = \frac{P(\overline{A}B_3)P(B_3)}{P(\overline{A})} = \frac{o.9 \times o.1}{1 + o.65}$

=. U) E[x] = 600 x 6 = 500 100

E[Y] = 200 x = 100

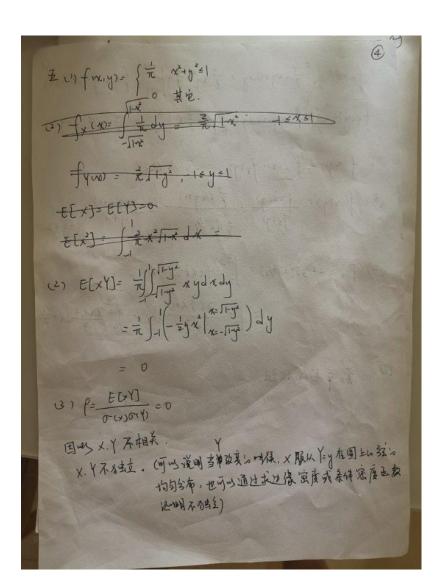
2) $P(80 \le x \le 120) = \frac{120}{5} P(x = x_1)$ $P(x = N_1) = C_{00} \frac{1}{16} \frac{1}{16}$

(3) X = 2 Xk Xk Xk ~ Ber(方) 独立,同5布,期望方底存在.

E[xi] = t, D(xi) = tx = \frac{5}{34}
E[x] = (m, D(x) = 6m x \frac{5}{36} = \frac{5}{40}

 $P(80 \le x \le |20) = P(\frac{80-6U}{|DU|} \le z \le \frac{|20-6U|}{|DU|}), ZNON)$ $= P(-2|\frac{c}{5} \le z \le 2|\frac{c}{5})$ $= [-2]\frac{c}{5} - D(-2|\frac{c}{5})$ $= [-2]\frac{c}{5} - D(-2|\frac$

 $\int_{Y} (xy) = \int_{1}^{2} \frac{4}{7} (xy+1) dy = \frac{7}{7} xy^{2} + \frac{4}{7} y \Big|_{y=1}^{y=2} = \frac{6}{7} x + \frac{4}{7}, 0 \le x \le 1$ $\int_{Y} (xy) = \int_{0}^{1} \frac{4}{7} (xy+1) dx = \frac{7}{7} y x^{2} + \frac{4}{7} x \Big|_{x=0}^{x=1} = \frac{7}{7} y + \frac{4}{7}, 1 \le y \le 2$ $\int_{0}^{1} \frac{4}{7} (xy+1) dx = \frac{7}{7} y x^{2} + \frac{4}{7} x \Big|_{x=0}^{x=1} = \frac{7}{7} y + \frac{4}{7}, 1 \le y \le 2$ $\int_{0}^{1} \frac{4}{7} (xy+1) dx = \frac{7}{7} y + \frac{4}{7} = \frac{7}{7} (xy+1) + \frac{7}{7} (xy$



 $X = \frac{300}{2} \times \frac{300}{100} \times \frac{300}{100}$

