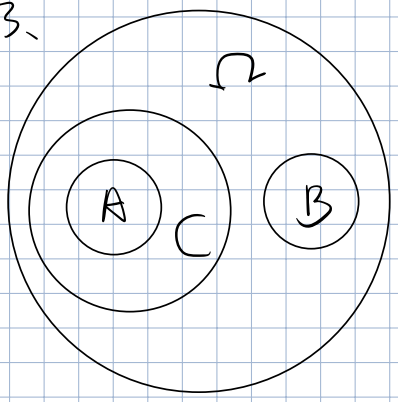
1. (1) $P(\bar{A}) = 0.6$ $P(AB) = 0.4$ $P(A \cup B) = 0.6$

$P(\bar{A}B) = 0.2$ $P(A\bar{B}) = 0$ $P(\bar{A}\bar{B}) = 0.4$

1. (2) $P(\bar{A}\bar{B}) = 0.3$ $P(A\bar{B}) = 0.4$

2、(1) C (2) D (3) C (4) C (5) B

3、



(1) $P(\bar{A}C) = P(C) - P(AC) = 0.1$

(2) $P(A) \cup P(B) = P(A) + P(B) = 0.6$

(3) $P(\bar{A}\bar{B}\bar{C}) = P(\overline{A \cup B \cup C}) = 1 - P(A \cup B \cup C)$

$= 1 - (P(A) + P(B) + P(C) - P(AB) - P(BC) - P(AC) + P(ABC))$

$= 1 - 0.7 = 0.3$

5、甲：$P(A)$ 乙：$P(B)$ 丁：$P(C)$

$P(A) = P(B) = P(C) = 0.4$

$P(AB) \cup P(BC) \cup P(AC) = 0.3$

$P(ABC) = 0.05$

$P(AB) + P(BC) + P(AC) = P(AB) \cup P(BC) \cup P(AC) + 2P(ABC)$

$= 0.4$

$P(\bar{A}\bar{B}\bar{C}) = P(\overline{A \cup B \cup C})$

$= 1 - (P(A) + P(B) + P(C) - P(AB) - P(BC) - P(AC) + P(ABC))$

$= 1 - (1.2 - 0.4 + 0.05)$

$= 0.15$

7、$P = 1 - \frac{\frac{10 \times 8 \times 6 \times 4}{A_4^4}}{C_4^4} = \frac{13}{21}$

C_{10}^{5}

8、(1) $P=\dfrac{A_3^3\cdot C_{12}^4\cdot C_8^4}{C_{15}^5\cdot C_{10}^5}=\dfrac{25}{91}$

(2) $P=\dfrac{3\cdot C_{12}^2\cdot C_{10}^5}{C_{15}^5 C_{10}^5}=\dfrac{6}{91}$

9、$P(A\cup B\cup C)=P(A)+P(B)+P(C)-P(AB)-P(BC)-P(AC)+P(ABC)$

$=\frac{3}{4}-\frac{3}{8}+1-P(\overline{ABC})$

$=\frac{3}{8}+1-P(\bar{A}\cup\bar{B}\cup\bar{C})$

$=\frac{5}{16}$