

第一周

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A1

(1)

6 次

(2)

$$A = \{ (0,a), (1,a), (2,a) \}$$

(3)

$$B = \{ (0,a), (0,b), (0,c) \}$$

A4

(1)

$$AB \cup BC \cup AC$$

(2)

$$\overline{AB \cup BC \cup AC}$$

(3)

$$\overline{ABC} \cup \overline{ABC} \cup \overline{ABC}$$

(4)

$$\overline{ABC}$$

A12

(1)

$$\text{有放回 } \frac{4}{5} \times \frac{4}{5} = \frac{16}{25}, \quad \text{无放回 } \frac{C_8^2}{C_{10}^2} = \frac{28}{45}$$

(2)

$$\text{有放回 } \frac{4}{5} \times \frac{1}{5} + \frac{1}{5} \times \frac{4}{5} = \frac{8}{25}, \quad \text{无放回 } \frac{C_8^1 C_2^1}{C_{10}^2} = \frac{16}{45}$$

(3)

$$\text{有放回 } 1 \times \frac{4}{5} = \frac{4}{5}, \quad \text{无放回 } \frac{A_2^1 A_8^1 + A_8^2}{A_{10}^2} = \frac{4}{5}$$

B1

$$(1) P(\overline{AC}) = 0.4 - 0.3 = 0.1$$

$$(2) P(A \cup B) = 0.3 + 0.3 = 0.6$$

$$(3) P(\overline{A \cup B \cup C}) = 1 - 0.4 - 0.3 = 0.3$$