

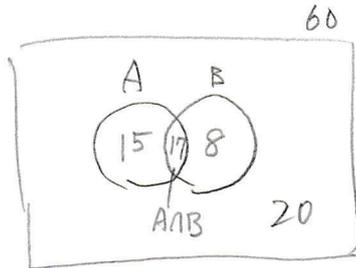
集合4

全体集合 U とその部分集合 A, B について, $n(U) = 60, n(A) = 32, n(B) = 25, n(A \cap B) = 17$ であるとき, 次の集合の要素の個数を求めよ。

(1) \bar{A}

(2) $A \cup B$

(3) $\overline{A \cup B}$



$$n(A \cup B) = 15 + 17 + 8$$

$$= 40$$

$$n(\overline{A \cup B}) = 20$$

$$\begin{aligned} (1) \quad n(\bar{A}) &= n(U) - n(A) \\ &= 60 - 32 \\ &= \underline{28} \end{aligned}$$

$$\begin{aligned} (2) \quad n(A \cup B) &= 32 + 25 - 17 \\ &= \underline{40} \end{aligned}$$

$$\begin{aligned} (3) \quad n(\bar{A \cup B}) &= n(\overline{A \cup B}) \\ &= n(U) - n(A \cup B) \\ &= 60 - 40 \\ &= \underline{20} \end{aligned}$$