

問題

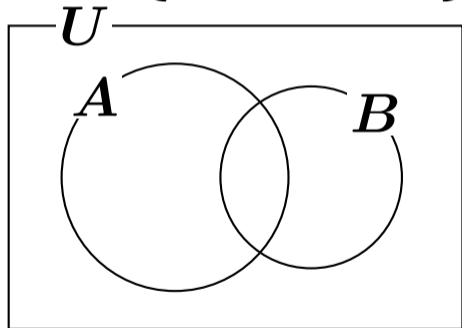
$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ を全体集合とする。

$A = \{2, 3, 4, 7, 8\}$, $B = \{4, 5, 7, 9\}$ のとき、次の集合を求めなさい。

図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

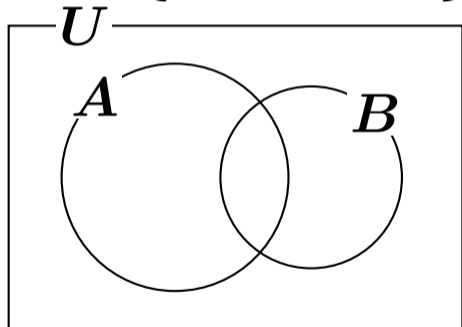
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

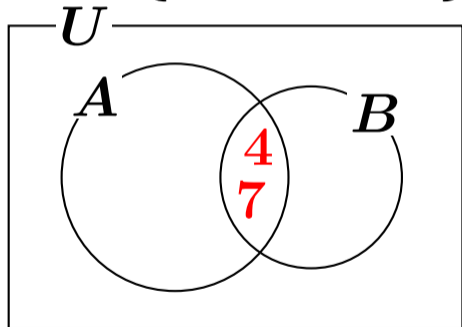
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

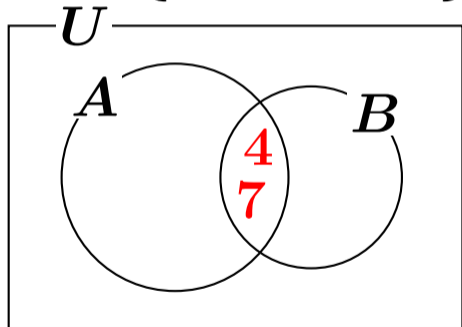
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

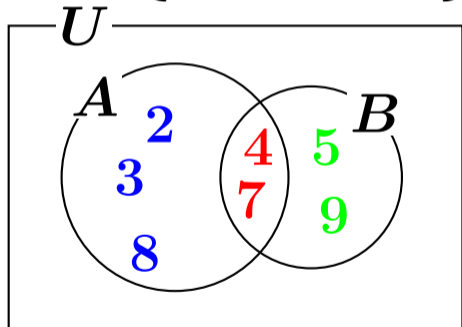
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

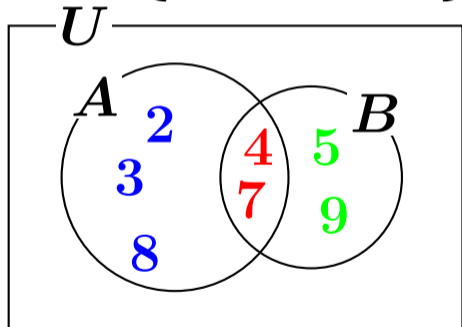
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

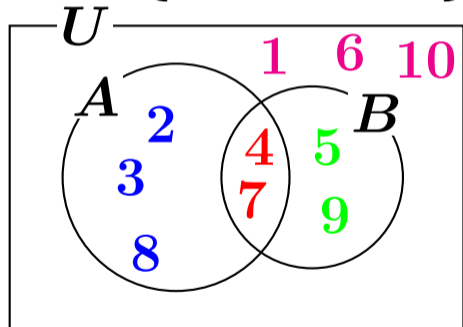
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



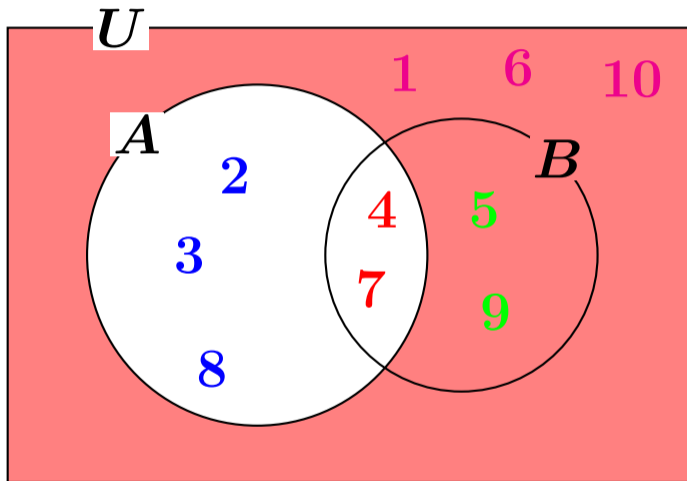
図をかくと

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

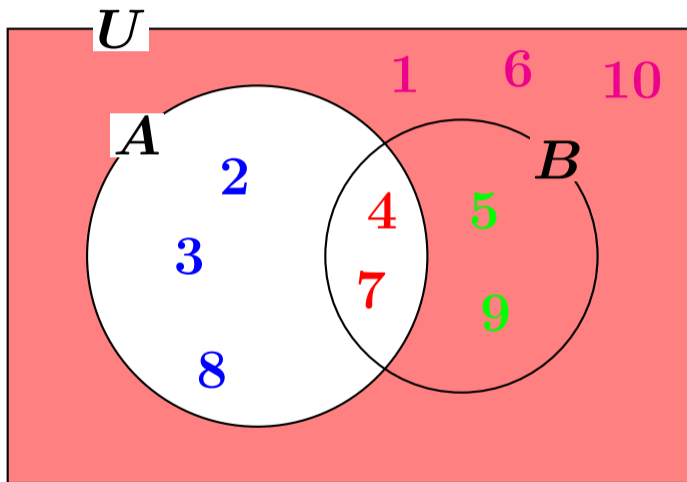
$$A = \{2, 3, 4, 7, 8\}, B = \{4, 5, 7, 9\}$$



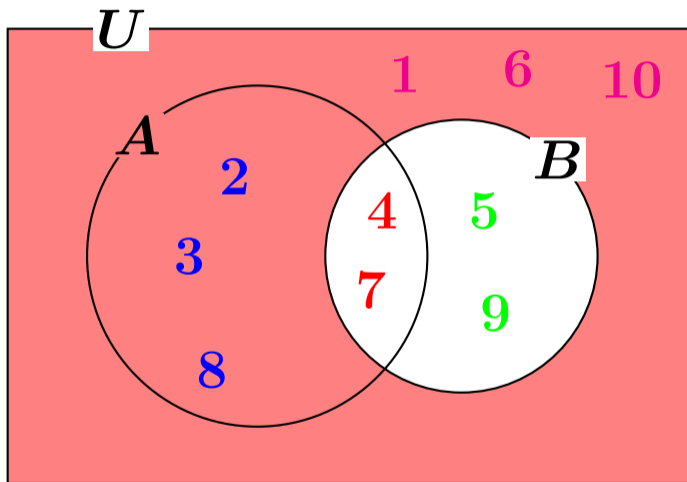
(1) \bar{A}



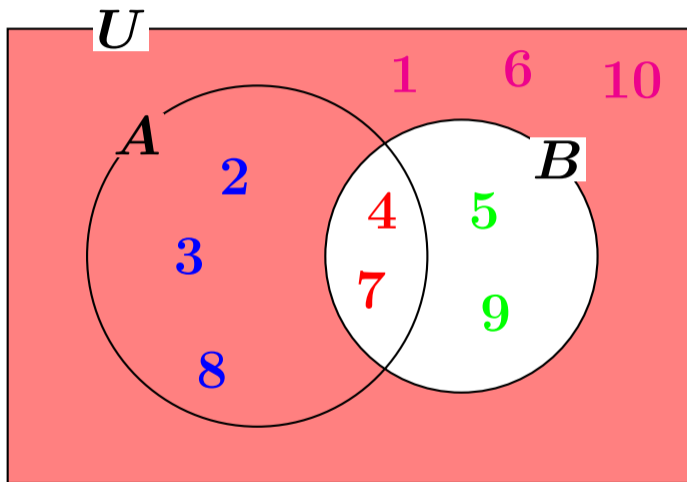
$$(1) \quad \overline{A} = \{1, 5, 6, 9, 10\}$$



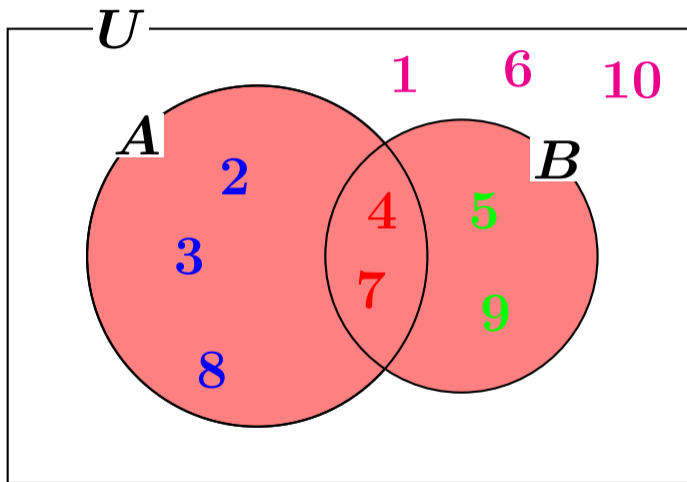
(2) \overline{B}



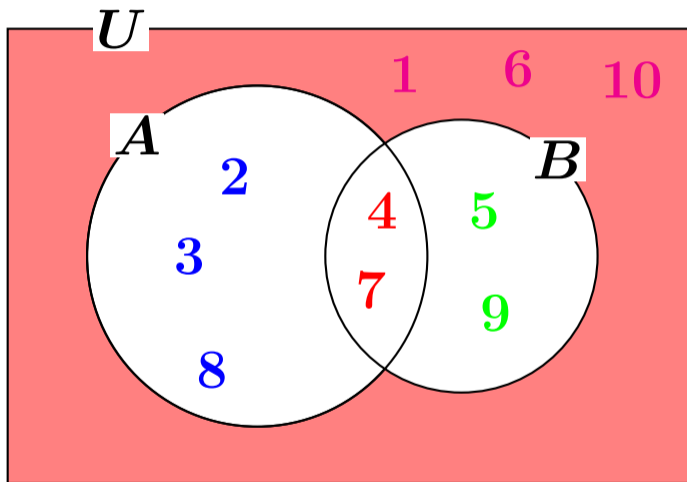
$$(2) \quad \overline{B} = \{1, 2, 3, 6, 8, 10\}$$



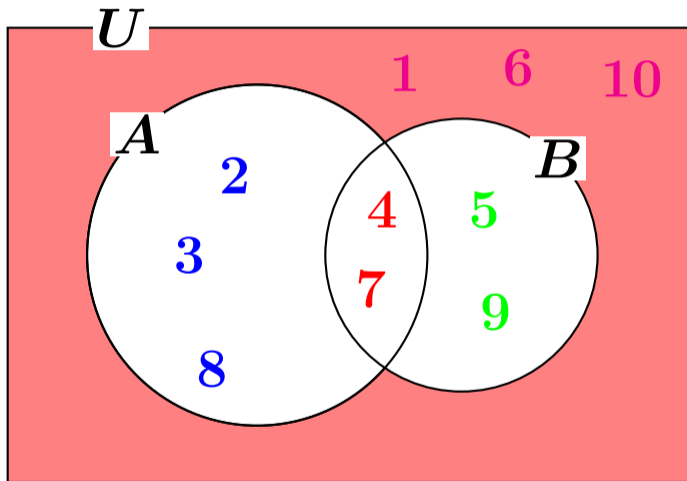
(3) $A \cup B$ は下図のようになるので ($\overline{A \cup B}$?)



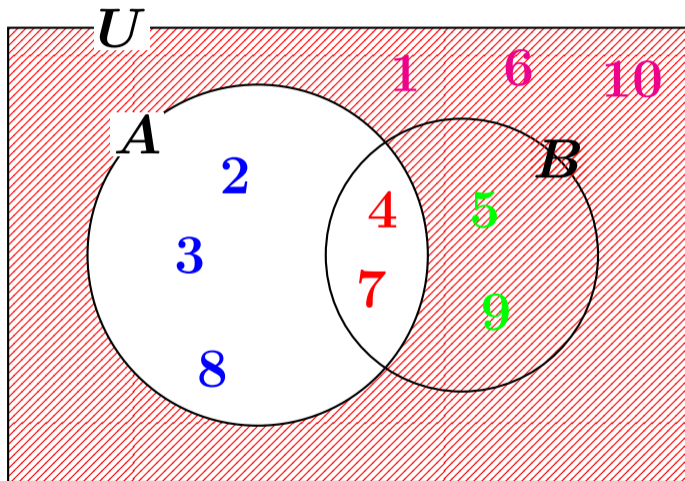
(3) $\overline{A \cup B}$



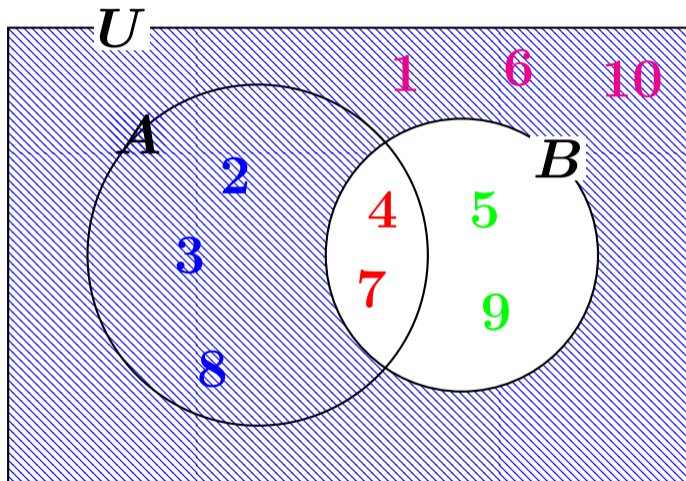
$$(3) \quad \overline{A \cup B} = \{1, 6, 10\}$$



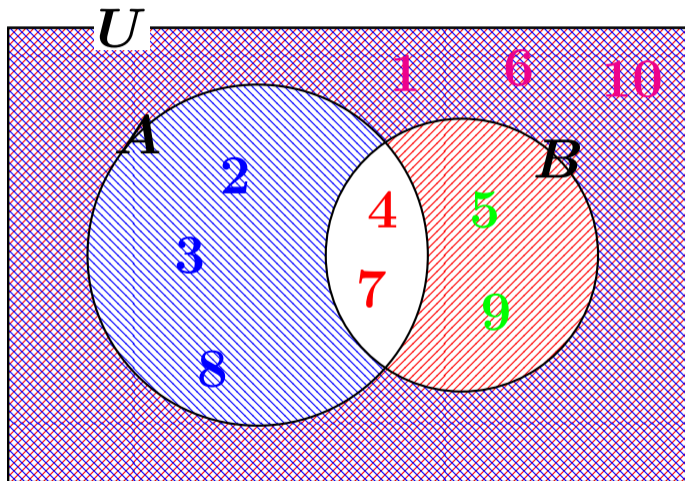
(4) \overline{A} は以下の部分 ($\overline{A} \cup \overline{B}$?)



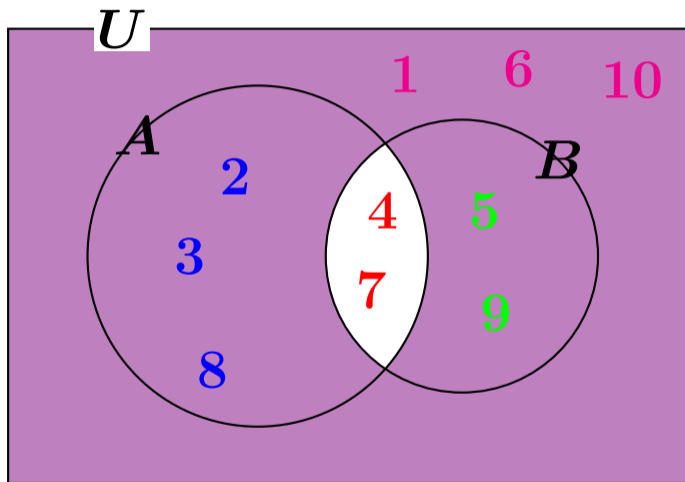
(4) \overline{B} は以下の部分 ($\overline{A \cup B}$?)



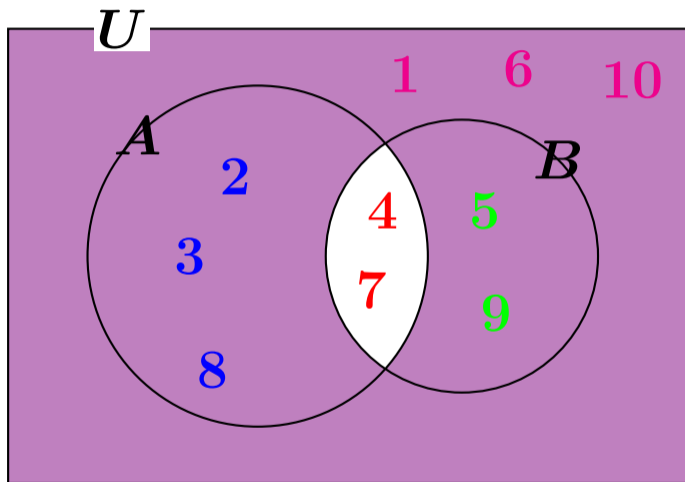
(4) $\overline{A} \cup \overline{B}$ は赤、青どちらかで塗られた部分



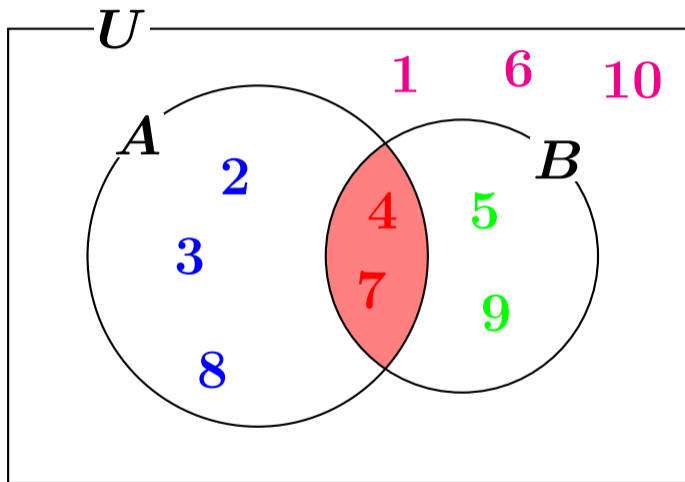
(4) $\overline{A \cup B}$



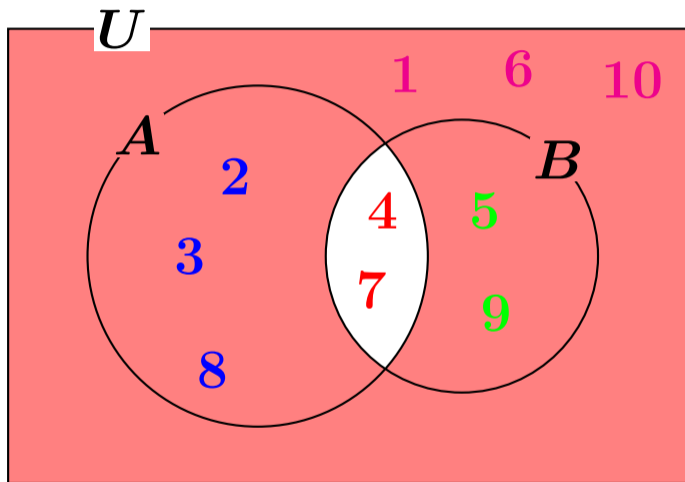
$$(4) \quad \overline{A} \cup \overline{B} = \{1, 2, 3, 5, 6, 8, 9, 10\}$$



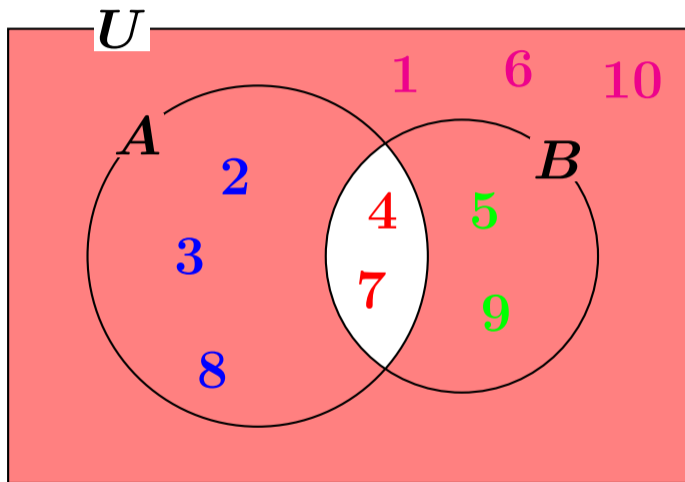
(5) $A \cap B$ は下図のようになるので ($\overline{A \cap B}$?)



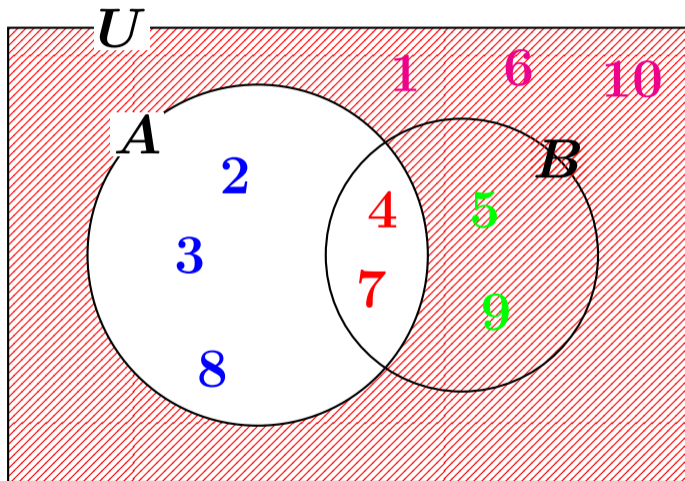
(5) $\overline{A \cap B}$



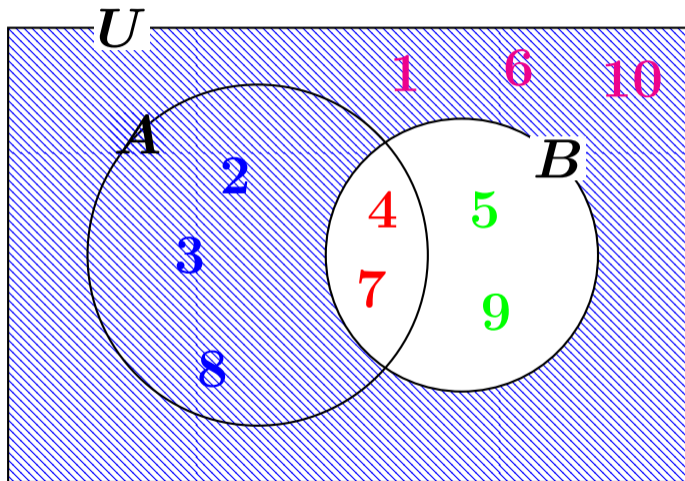
$$(5) \quad \overline{A \cap B} = \{1, 2, 3, 5, 6, 8, 9, 10\}$$



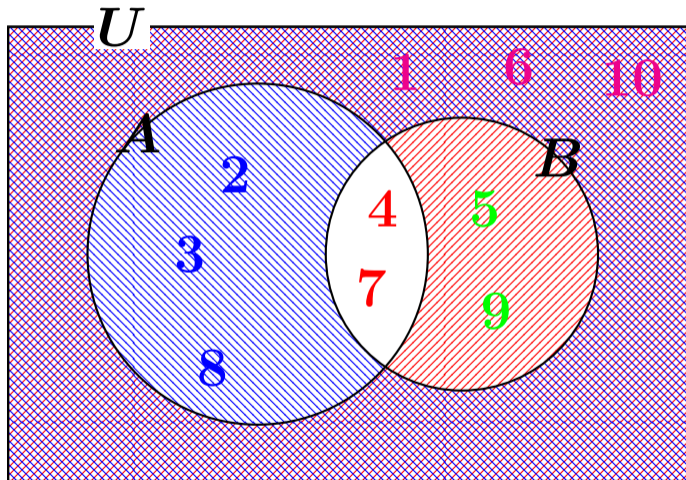
(6) \bar{A} は以下の部分 ($\bar{A} \cap \bar{B}$?)



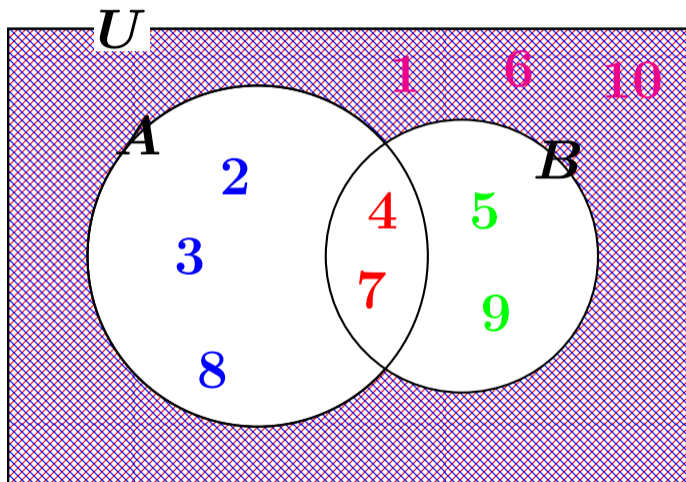
(6) \overline{B} は以下の部分 ($\overline{A} \cap \overline{B}$?)



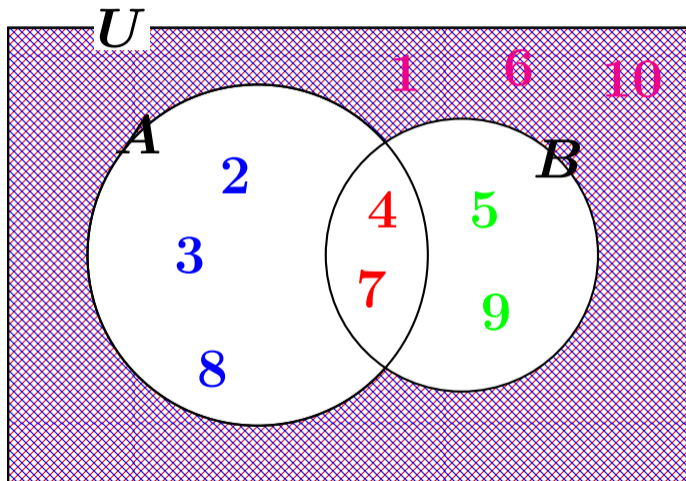
(6) $\overline{A} \cap \overline{B}$ は赤、青両方で塗られた部分



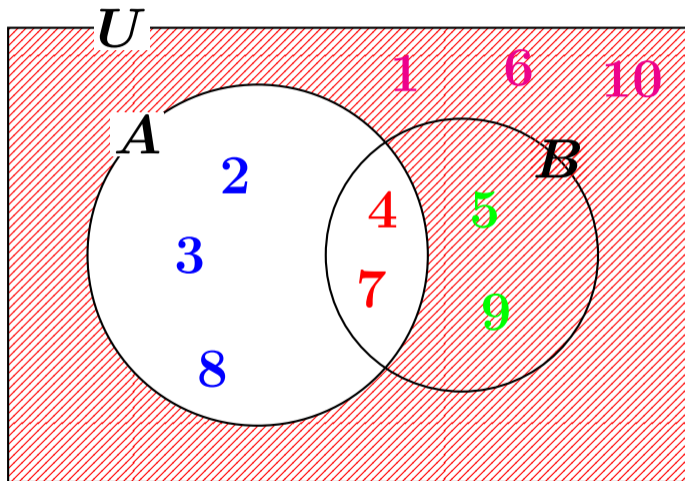
$$(6) \quad \overline{A} \cap \overline{B}$$



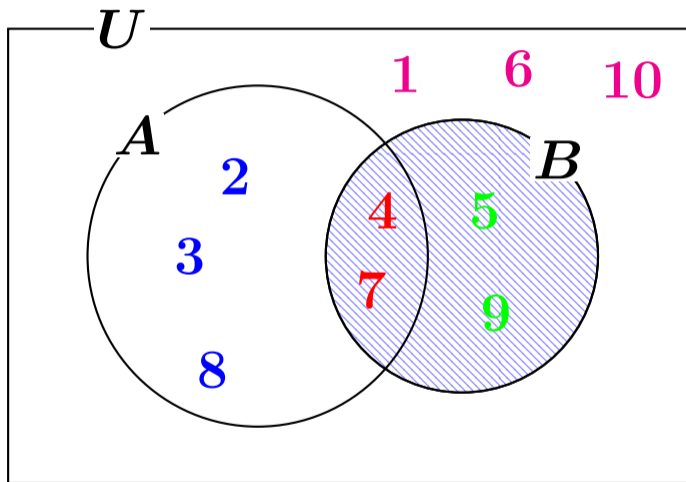
$$(6) \quad \overline{A} \cap \overline{B} = \{1, 6, 10\}$$



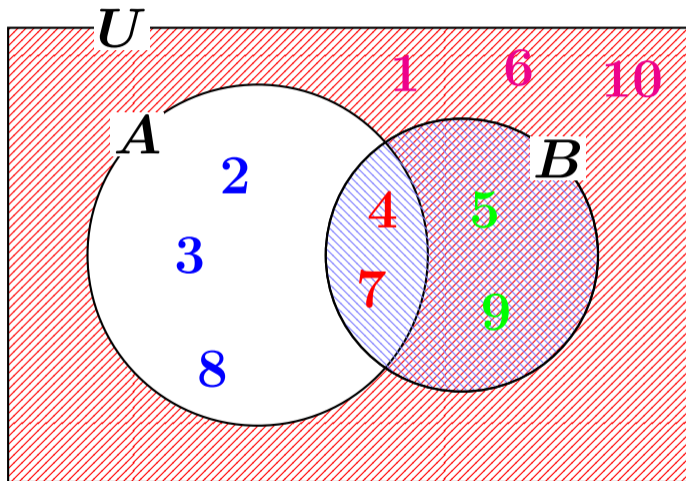
(7) \bar{A} は以下の部分 ($\bar{A} \cap B$?)



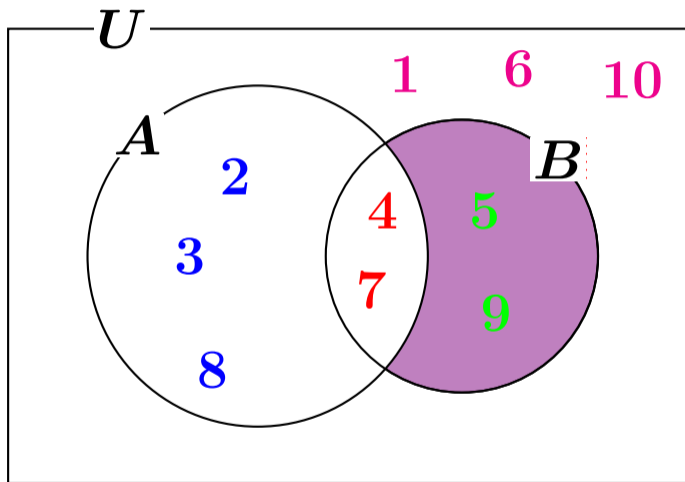
(7) B は以下の部分 ($\overline{A} \cap B$?)



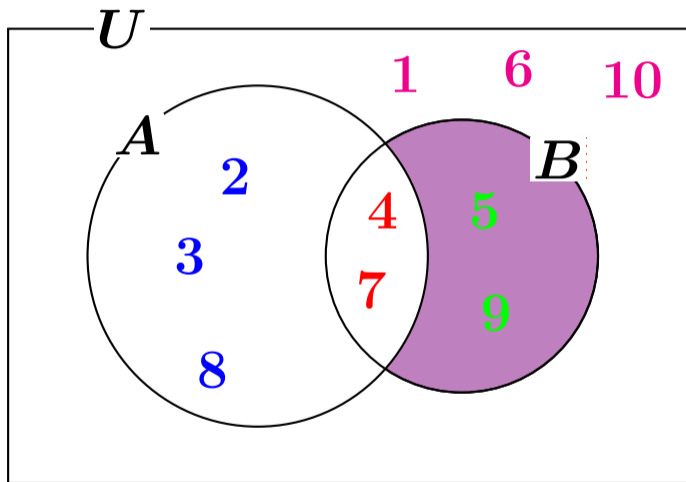
(7) $\bar{A} \cap B$ は赤、青両方で塗られた部分



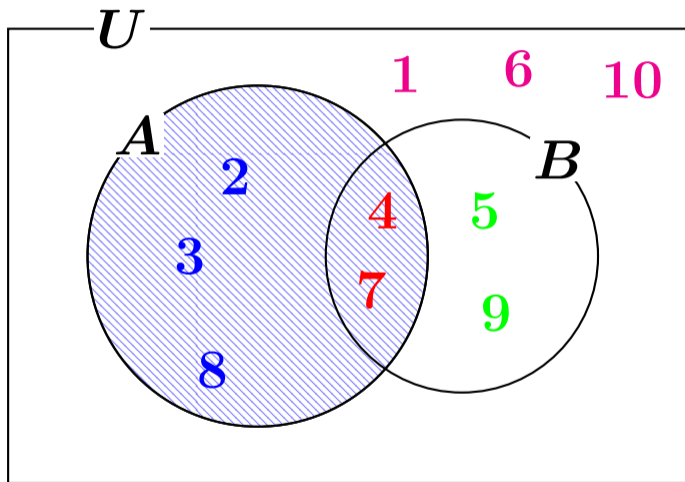
(7) $\bar{A} \cap B$



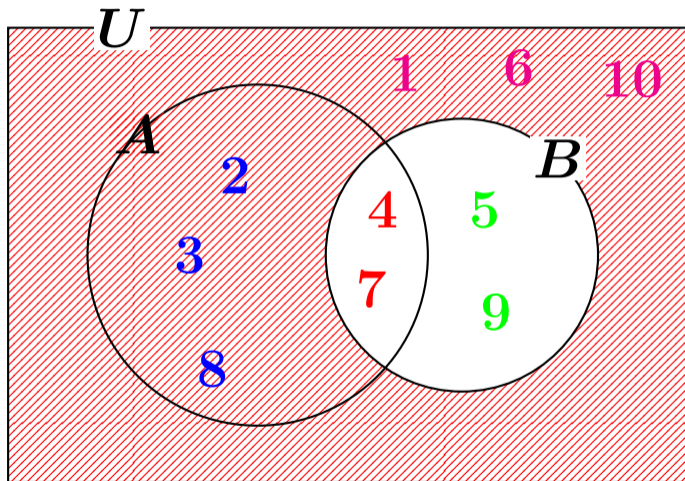
$$(7) \quad \overline{A} \cap B = \{5, 9\}$$



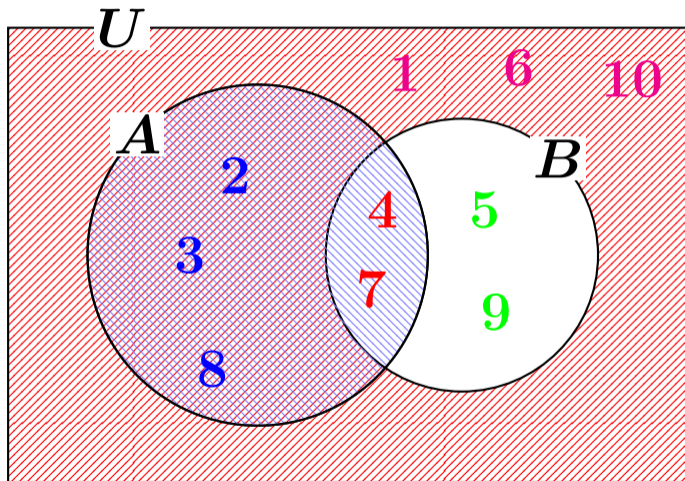
(8) A は以下の部分 ($A \cap \overline{B}$?)



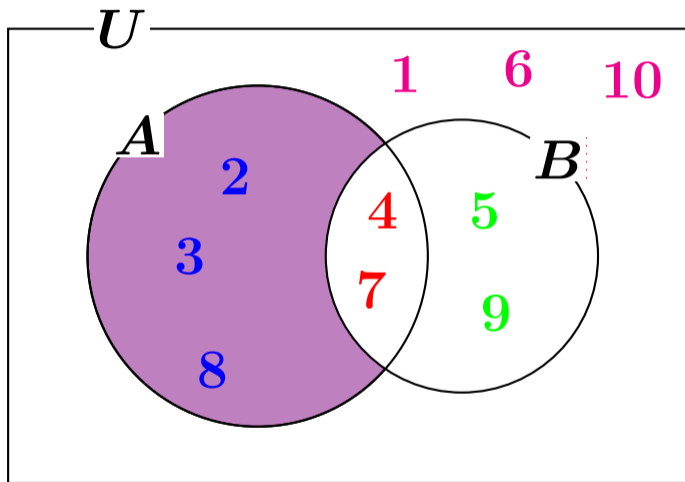
(8) \overline{B} は以下の部分 ($A \cap \overline{B}$?)



(8) $A \cap \overline{B}$ は赤、青両方で塗られた部分



(8) $A \cap \overline{B}$



$$(8) \quad A \cap \overline{B} = \{2, 3, 8\}$$

