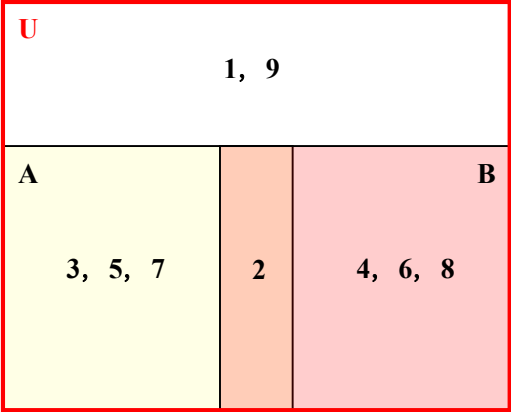


数と式 8 集合

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(1)

$A \cup B = \{2, 3, 4, 5, 6, 7, 8\}$

(2)

$B = \{2, 4, 6, 8\}$

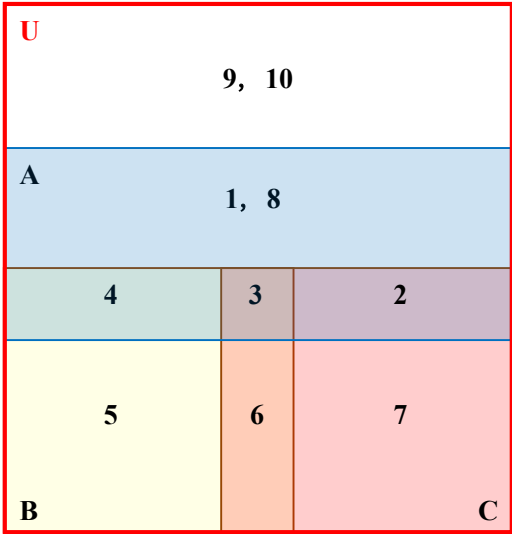
(3)

$A \cap \overline{B} = \{3, 5, 7\}$

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	1	2	3	4	5	6	7	8	9	10
A	○	○	○	○				○		
B			○	○	○	○				
C		○	○			○	○			

より,



(1)

$$A \cap B \cap C = \{3\}$$

(2)

$$A \cup B \cup C = \{1, 2, 3, 4, 5, 6, 7, 8\}$$

(3)

$$A \cap B \cap \overline{C} = \{4\}$$

(4)

$$\overline{A} \cap B \cap \overline{C} = \{5\}$$

(5)

$$\overline{A \cap B \cap C} = \{1, 2, 4, 5, 6, 7, 8, 9, 10\}$$

(6)

$$(A \cup C) \cap \overline{B} = \{1, 2, 7, 8\}$$

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$$A \cap B = \{1, 4\} \text{ より, } 4 \in A$$

$$\text{これと } A = \{1, 3, 3a-2\} \text{ より, } 3a-2=4 \quad \therefore a=2$$

$$\text{このとき, } A = \{1, 3, 4\}, B = \{-5, 4, 1\} \text{ となり, } A \cap B = \{1, 4\} \text{ を満たす。}$$

$$\text{よって, } A \cup B = \{-5, 1, 3, 4\}$$