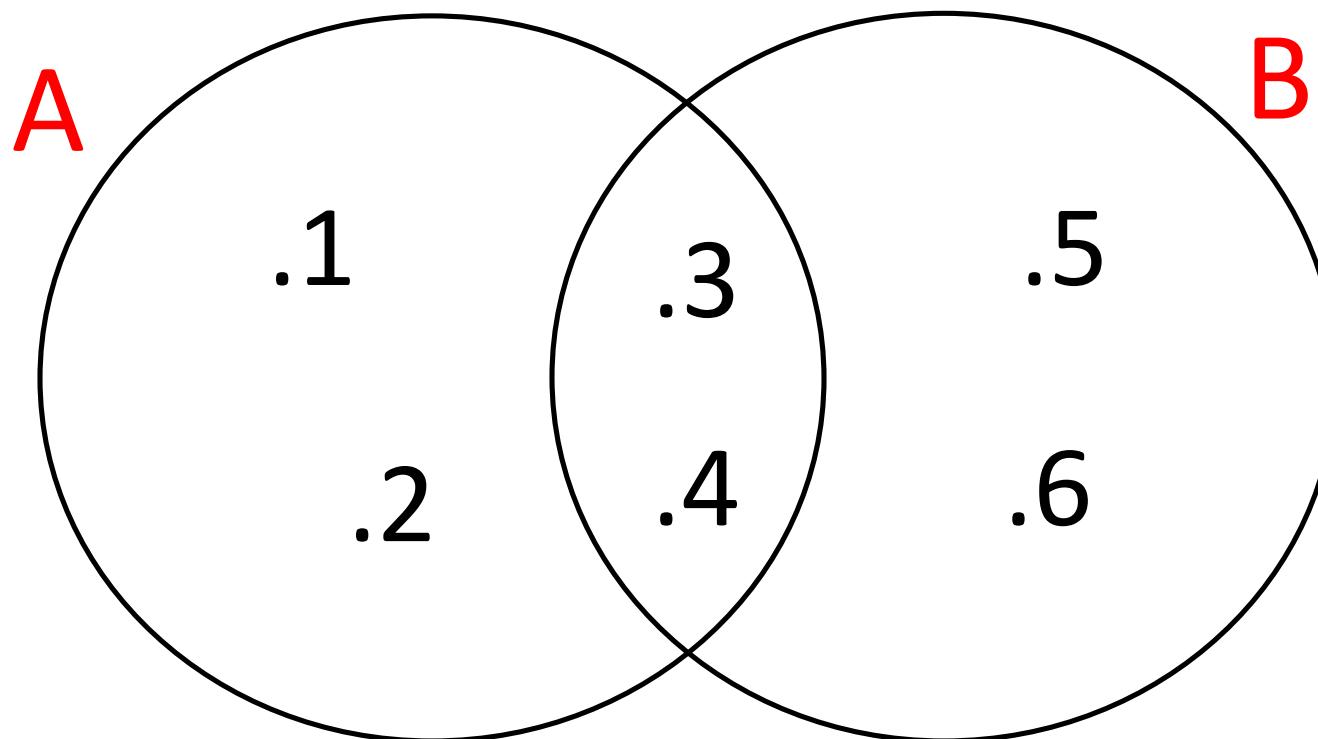


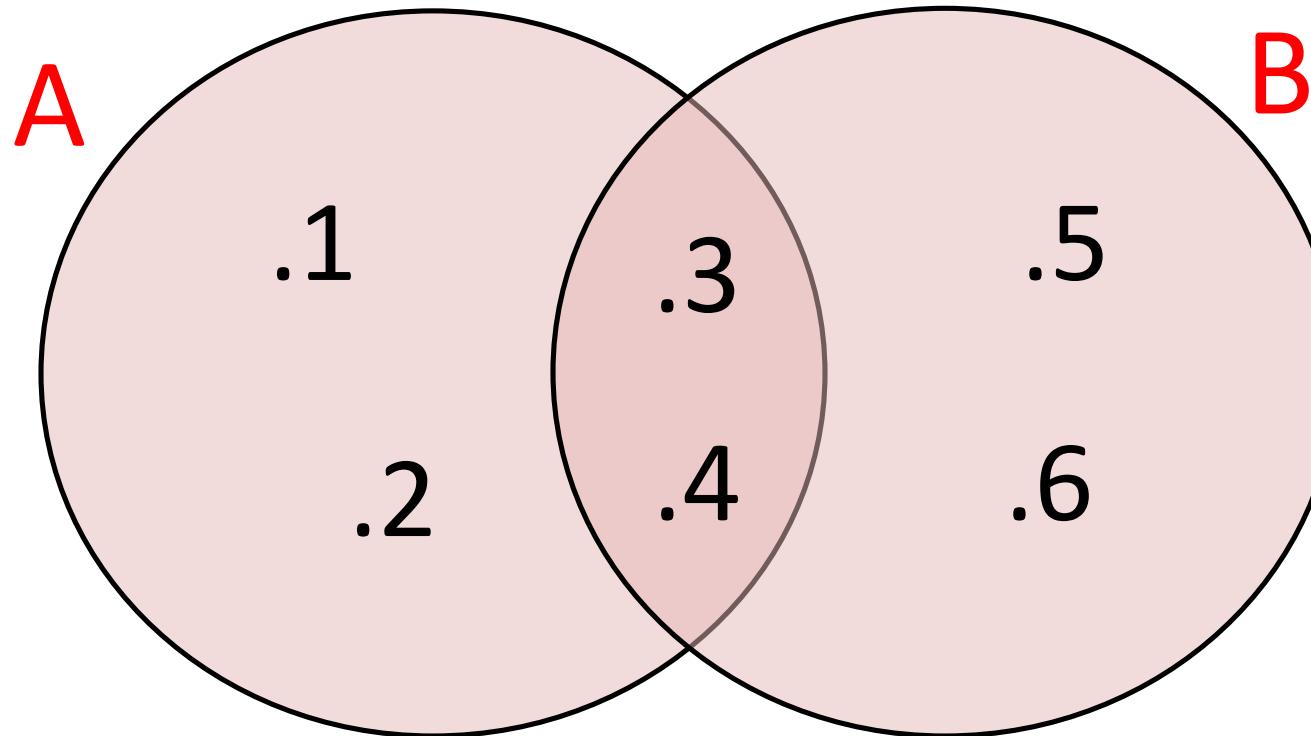
Унија, пресек и разлика скупова

- утврђивање -

1. Дати су скупови $A = \{ 1, 2, 3, 4 \}$ и $B = \{ 3, 4, 5, 6 \}$.
Нацртај Венов дијаграм и одреди унију, пресек и
разлику скупова A и B.

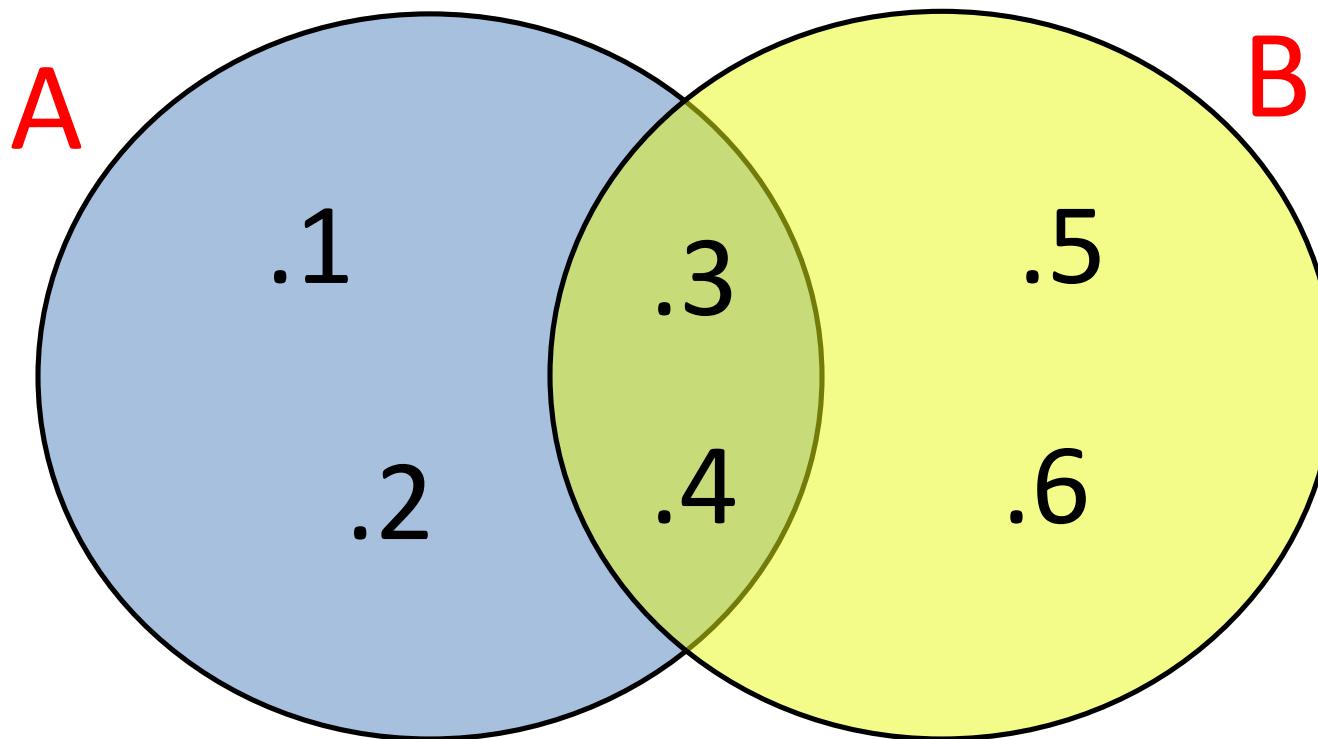


Унија скупова



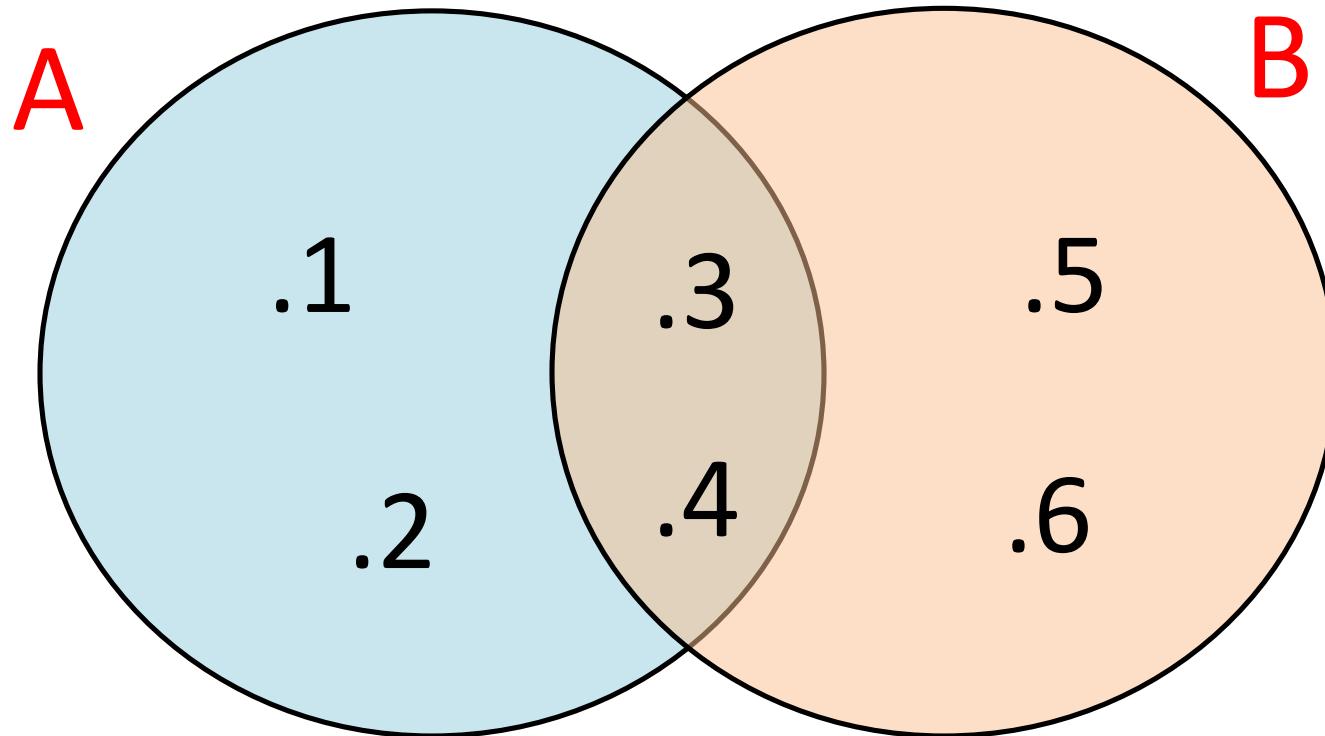
$$A \cup B = \{1, 2, 3, 4\} \cup \{3, 4, 5, 6\} = \{1, 2, 3, 4, 5, 6\}$$

Пресек скупова



$$A \cap B = \{1, 2, 3, 4\} \cap \{3, 4, 5, 6\} = \{3, 4\}$$

Разлика скупова

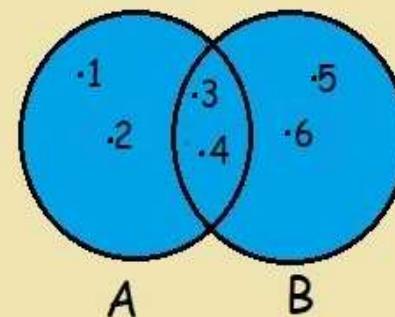
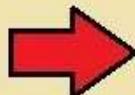


$$A \setminus B = \{1, 2, 3, 4\} \setminus \{3, 4, 5, 6\} = \{1, 2\}$$

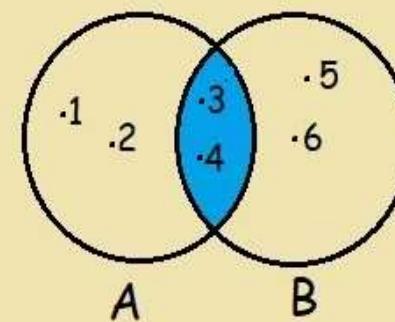
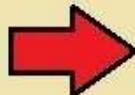
$$B \setminus A = \{3, 4, 5, 6\} \setminus \{1, 2, 3, 4\} = \{5, 6\}$$

Унија и пресек скупова

$A \cup B$

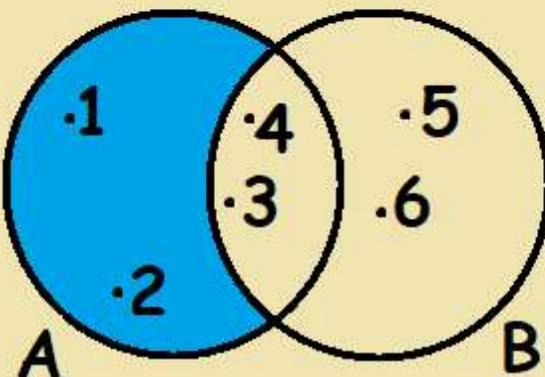
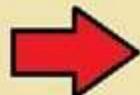


$A \cap B$

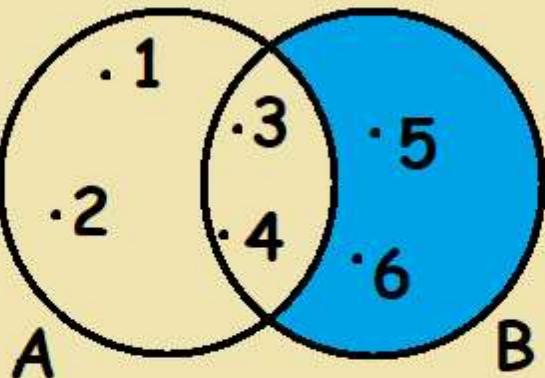
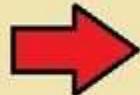


Разлика скупова

$A \setminus B$



$B \setminus A$



Запамти :

$A \setminus B \neq B \setminus A$

2. На основу Веновог дијаграма одреди елементе следећих скупова :

$$A = \{ 1, 5, 6, 7, 9 \}$$

$$B = \{ 1, 2, 3, 5, 7 \}$$

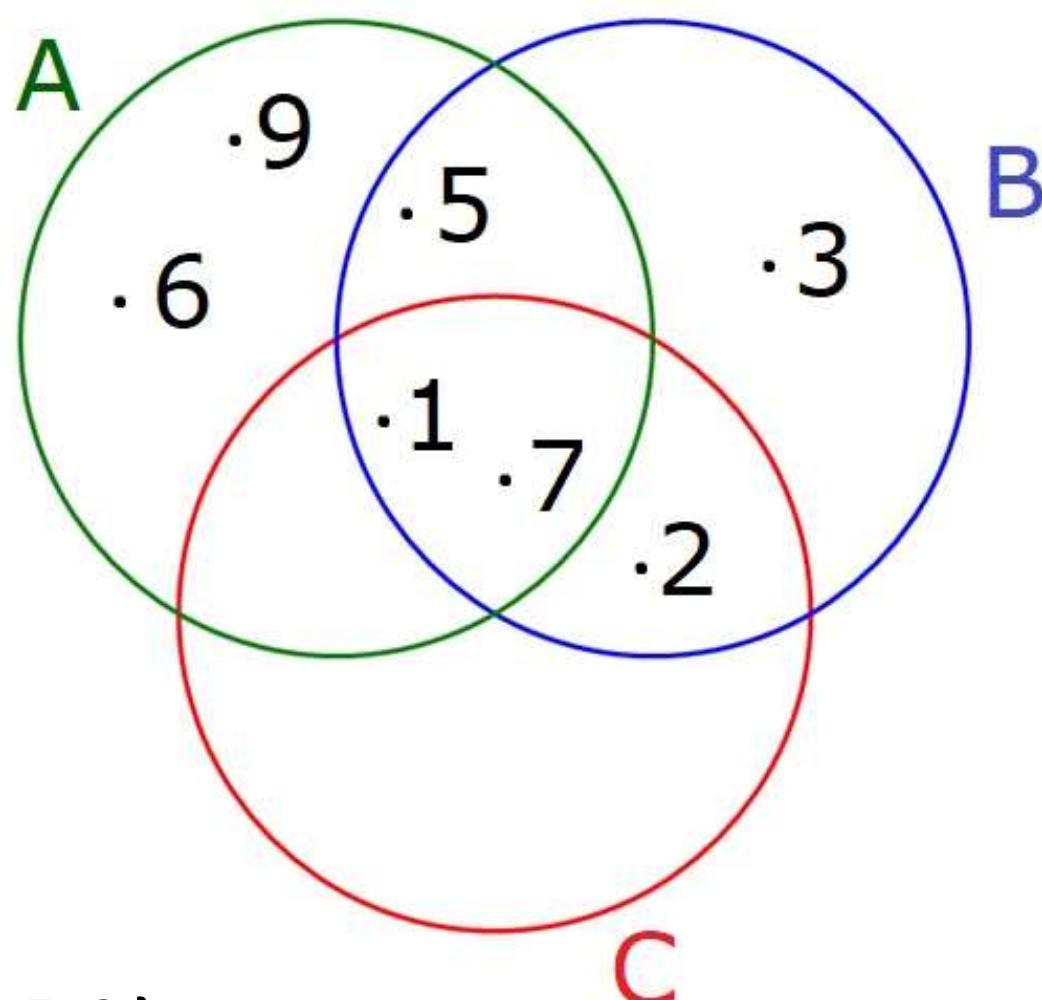
$$C = \{ 1, 2, 7 \}$$

$$A \cup B = \{ 1, 2, 3, 5, 6, 7, 9 \}$$

$$A \cup C = \{ 1, 2, 5, 6, 7, 9 \}$$

$$B \cup C = \{ 1, 2, 3, 5, 7 \}$$

$$A \cup B \cup C = \{ 1, 2, 3, 5, 6, 7, 9 \}$$

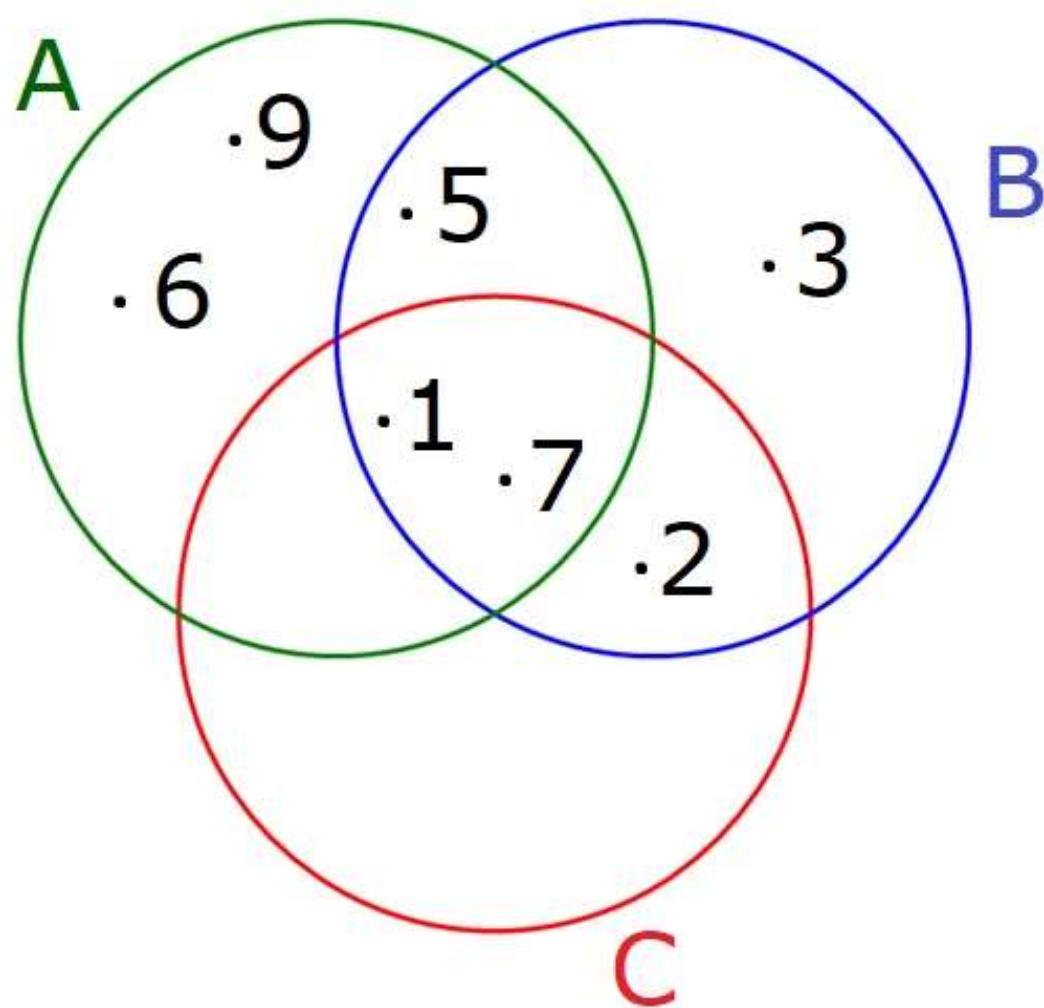


$$A \cap B = \{1, 5, 7\}$$

$$A \cap C = \{1, 7\}$$

$$B \cap C = \{1, 2, 7\}$$

$$A \cap B \cap C = \{1, 7\}$$



$$A \setminus B = \{ 6, 9 \}$$

$$B \setminus A = \{ 2, 3 \}$$

$$A \setminus C = \{ 5, 6, 9 \}$$

$$C \setminus A = \{ 2 \}$$

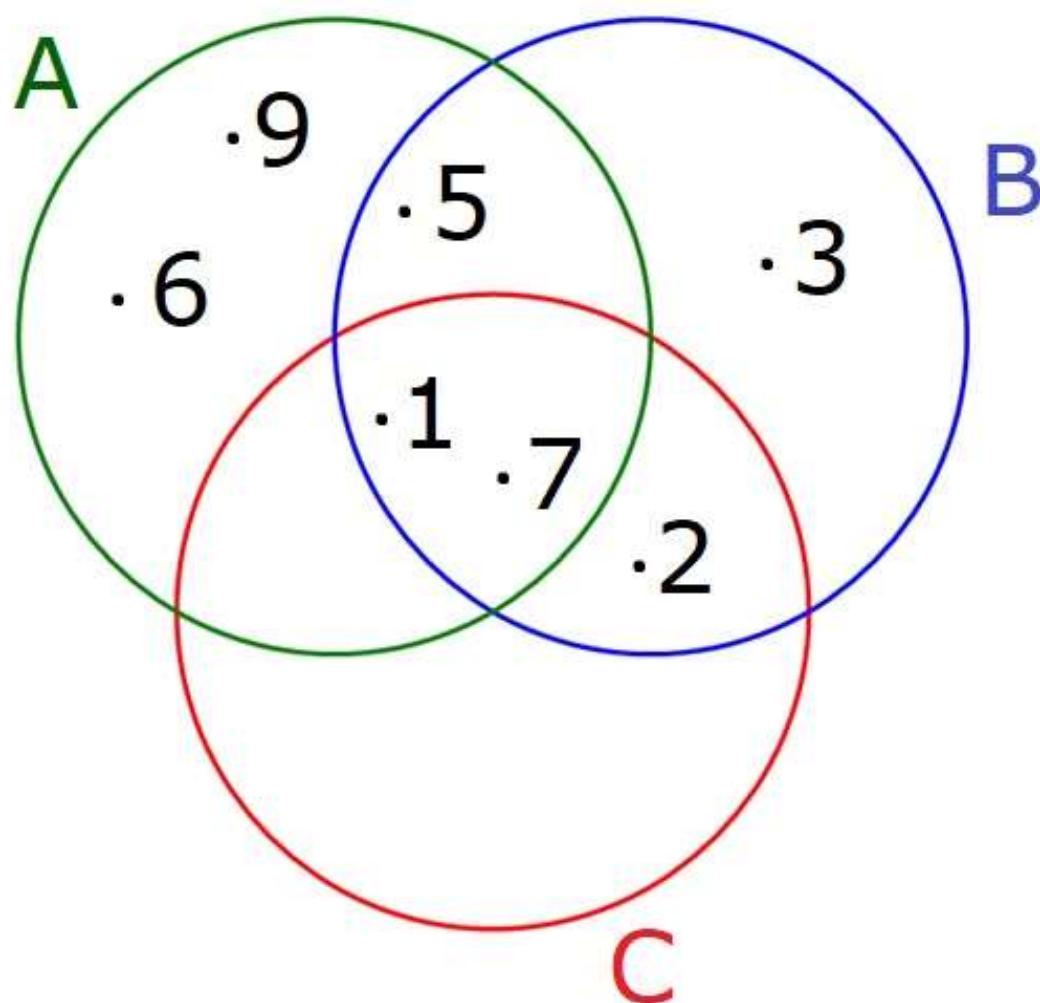
$$B \setminus C = \{ 3, 5 \}$$

$$C \setminus B = \{ \}$$

$$A \setminus (B \setminus C) = \{ 1, 6, 7, 9 \}$$

$$B \setminus (A \setminus C) = \{ 1, 2, 3, 7 \}$$

$$C \setminus (A \setminus B) = \{ 1, 2, 7 \}$$



$$A \cup (B \cap C) = \{1, 2, 5, 6, 7, 9\}$$

$$A \cap (B \cup C) = \{1, 5, 7\}$$

$$A \setminus (B \cup C) = \{6, 9\}$$

$$A \setminus (B \cap C) = \{5, 6, 9\}$$

$$(A \cup C) \setminus B = \{6, 9\}$$

$$B \setminus (A \cap C) = \{2, 3, 5\}$$

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

$$C \setminus (A \cup B) = \{\}$$

$$(A \cap B) \setminus (B \cup C) = \{\}$$

