

Пусть $X = (A \setminus B) \cap C$ – некоторое множество. Выберите равные ему множества.

$$Y = B \setminus (A \cap (C \cup (A \cap B)))$$

$$Y = C \Delta ((\overline{B} \cup C) \cap (\overline{A} \cup \overline{B}))$$

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

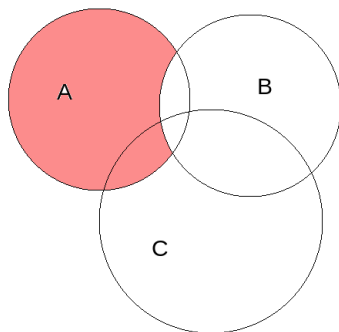
$$Y = ((C \Delta B) \cap C) \cap \overline{(B \setminus A)}$$

$$Y = (C \cup B) \cap (A \Delta (B \cap A))$$

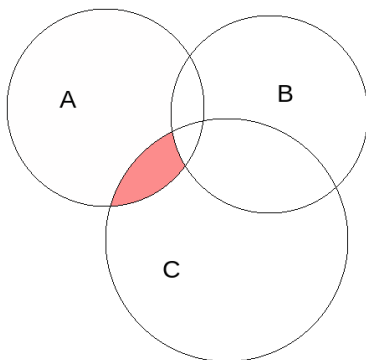
Решение

На кругах Эйлера

$$X = (A \setminus B) \cap C$$

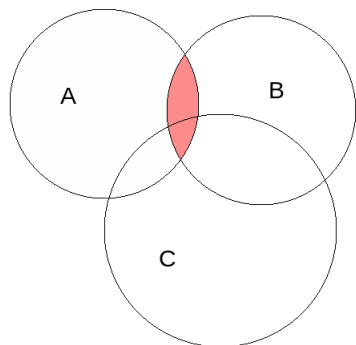


1. $(A \setminus B)$

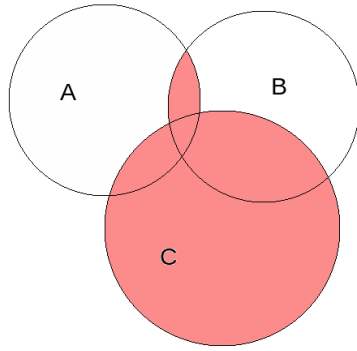


2. $(A \setminus B) \cap C$

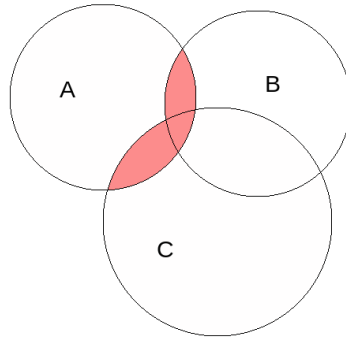
$$Y = B \setminus (A \cap (C \cup (A \cap B)))$$



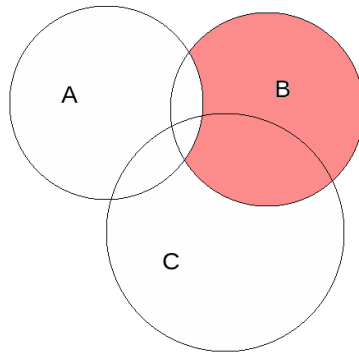
1. $(A \cap B)$



2. $(C \cup (A \cap B))$

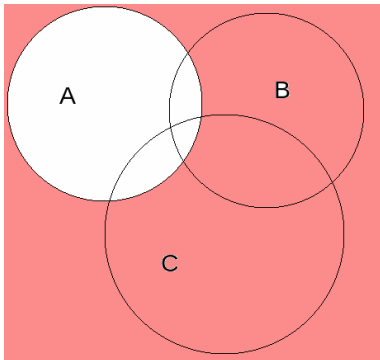


3. $(A \cap (C \cup (A \cap B)))$

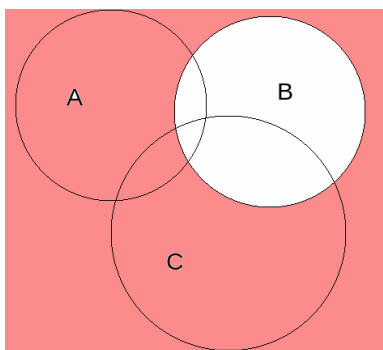


4. $B \setminus (A \cap (C \cup (A \cap B)))$

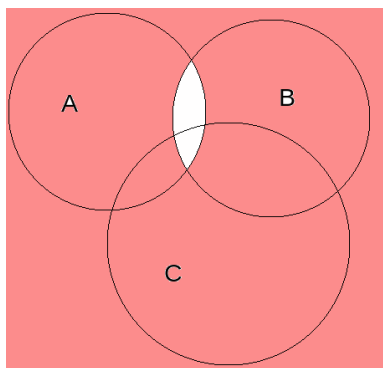
$$Y = C \Delta ((\overline{B} \cup C) \cap (\overline{A} \cup \overline{B}))$$



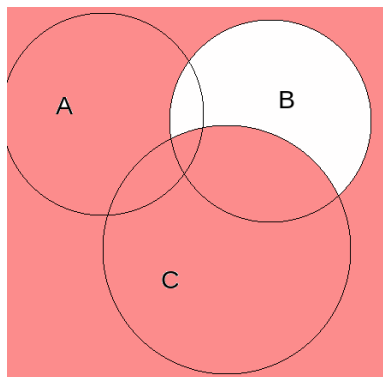
1. \overline{A}



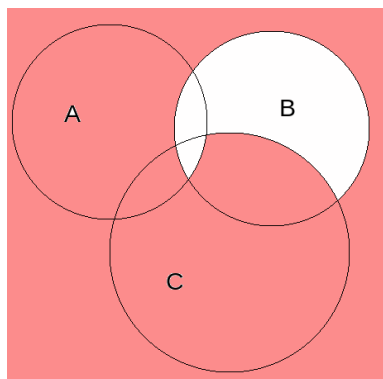
2. \overline{B}



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

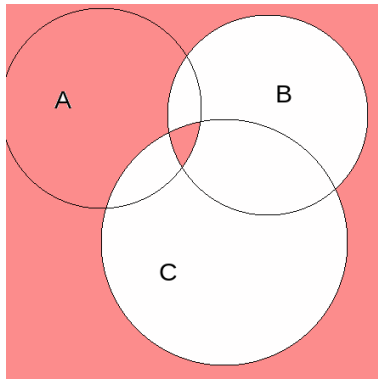


4. $(\overline{B} \cup C)$

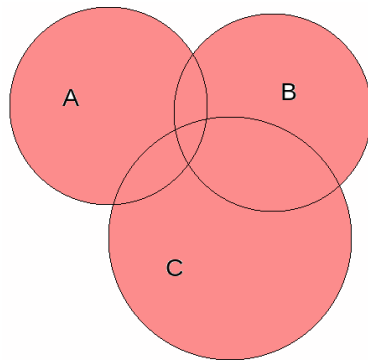


5. $((\overline{B} \cup C) \cap (\overline{A} \cup \overline{B}))$

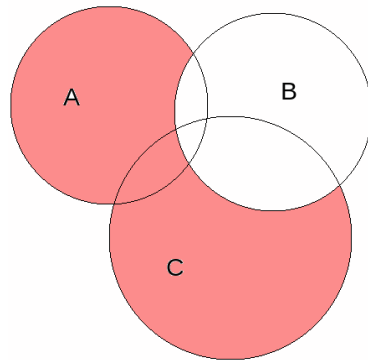
6. $C \Delta ((\overline{B} \cup C) \cap (\overline{A} \cup \overline{B}))$



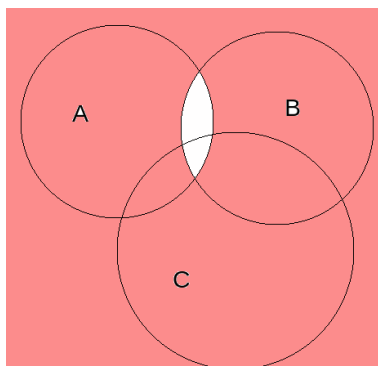
$Y = (((C \cup B) \cup A) \setminus B) \cup \overline{A}$



1. $((C \cup B) \cup A)$

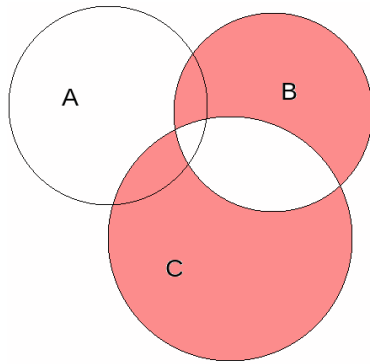


2. $((C \cup B) \cup A) \setminus B$

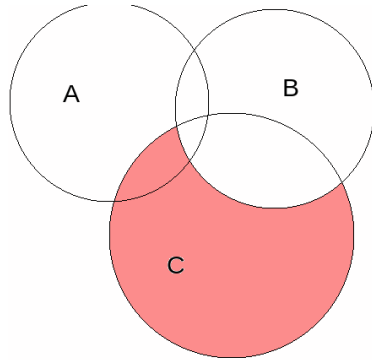


3. $(((C \cup B) \cup A) \setminus B) \cup \overline{A}$

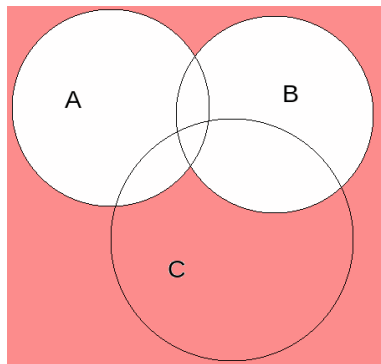
$Y = ((C \Delta B) \cap C) \cap \overline{(\overline{B} \setminus A)}$



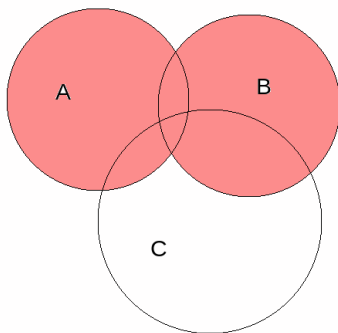
1. $(C \Delta B)$



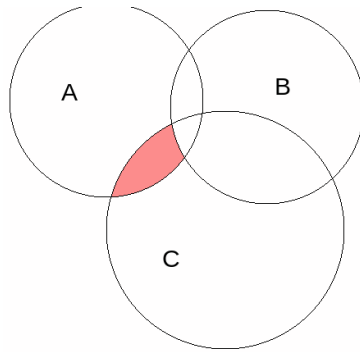
2. $((C \Delta B) \cap C)$



3. $(\overline{B} \setminus A)$

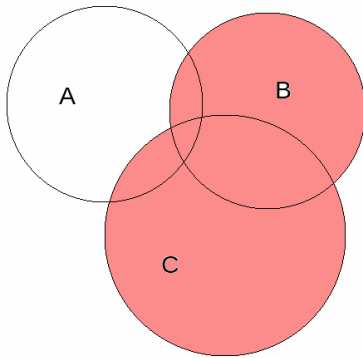


4. $\overline{(\overline{B} \setminus A)}$

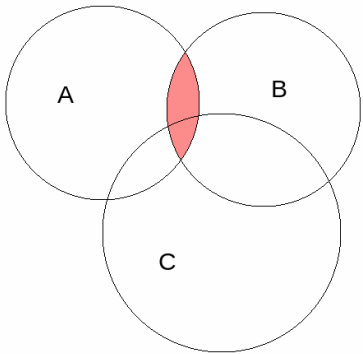


5. $((C \Delta B) \cap C) \cap \overline{(B \setminus A)}$

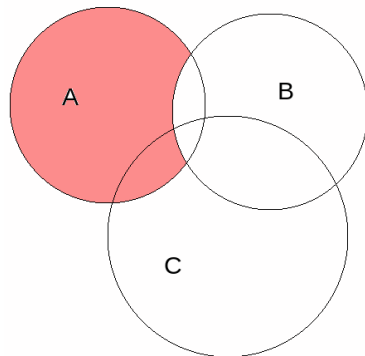
$$Y = (C \cup B) \cap (A \Delta (B \cap A))$$



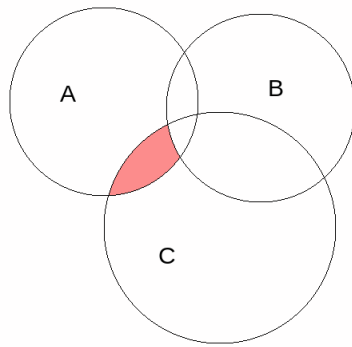
1. $(C \cup B)$



2. $(B \cap A)$



3. $(A \Delta (B \cap A))$



4. $(C \cup B) \cap (A \Delta (B \cap A))$