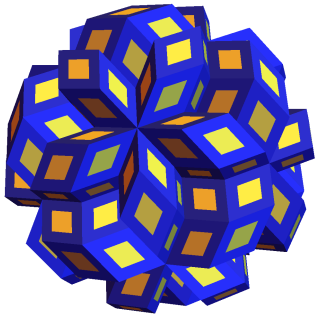
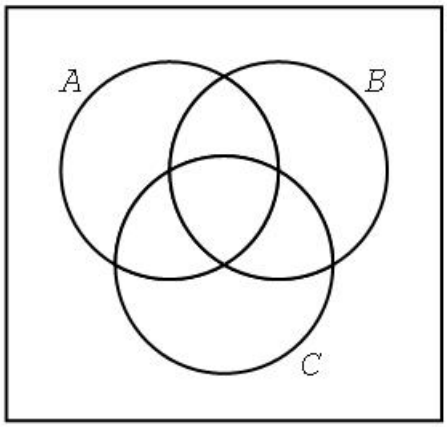


# Vennovi diagrami

Narisan je prazen Vennov diagram,
ki ga moraš osenčiti glede na dan izraz.



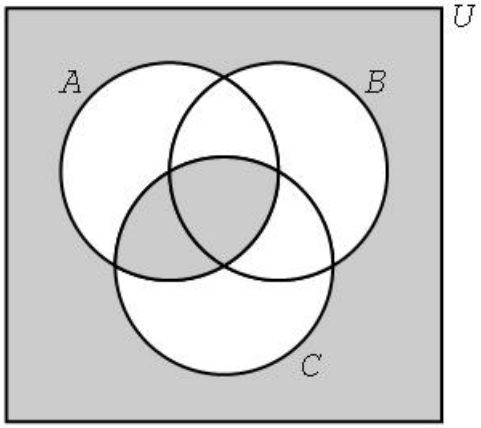

$(A \cap C) \cup (A' \cap B' \cap C')$

$(A' \cup C) \cap (A \cup C') \cap (B' \cup C)$

$(A' \cup C')' \cup (A \cup B \cup C)'$

$(A \cap C')' \cap (A' \cap C)' \cap (B \cap C')'$

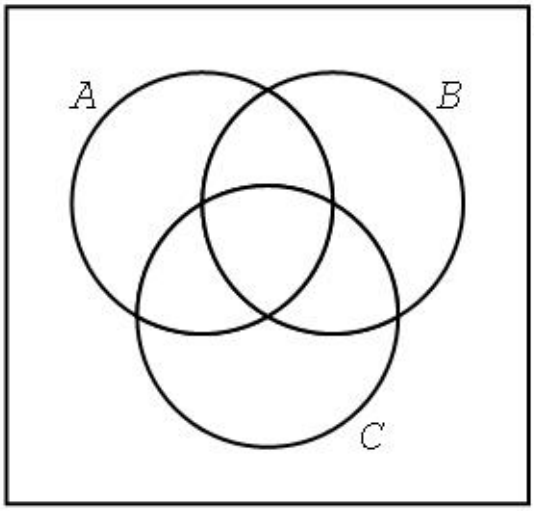
odgovor




Logika d.o.o.

Naloge:

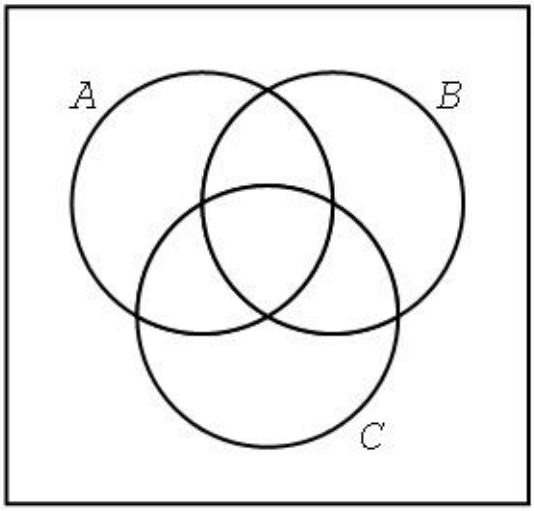
1.




$$A \cap B' \cap C'$$

$$(A' \cup B \cup C)'$$

2.



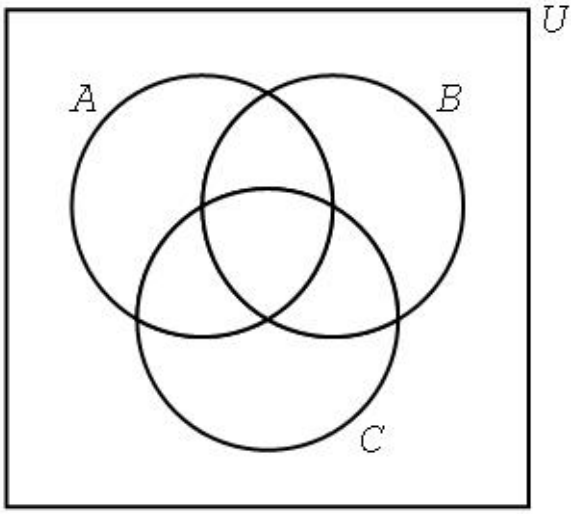

$$A \cup (B \cap C')$$

$$(A \cup B) \cap (A \cup C')$$

$$A \cup (B' \cup C)'$$

$$(A' \cap B')' \cap (A' \cap C)'$$

3.



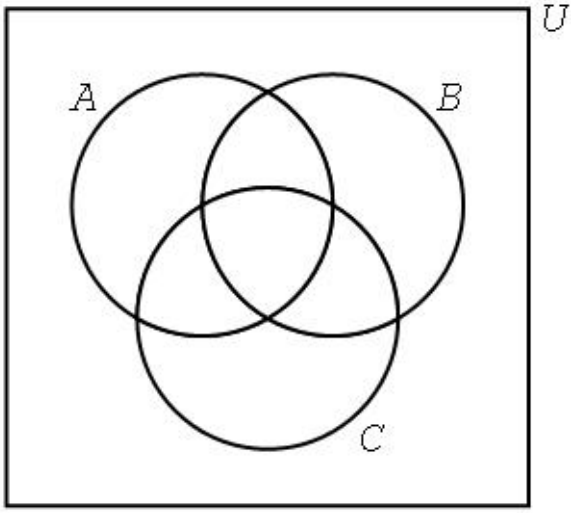

$(A \cap C) \cup (A' \cap B \cap C')$

$(A' \cup C) \cap (A \cup B) \cap (A \cup C')$

$(A' \cup C')' \cup (A \cup B' \cup C)'$

$(A \cap C')' \cap (A' \cap B')' \cap (A' \cap C)'$

4.



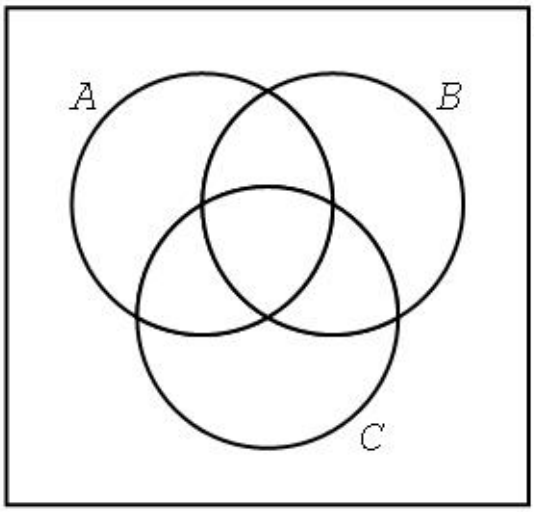

$(A \cap B') \cup (B \cap C)$

$(A \cup B) \cap (B' \cup C)$

$(A' \cup B)' \cup (B' \cup C')'$

$(A' \cap B')' \cap (B \cap C')'$

5.



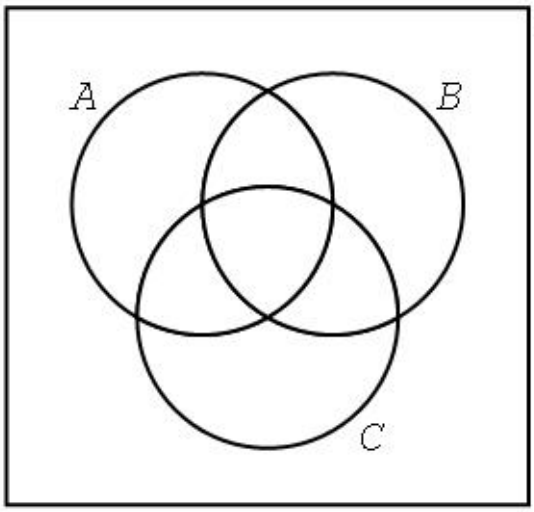

$(A \cap B' \cap C) \cup (A' \cap C')$

$(A' \cup B') \cap (A' \cup C) \cap (A \cup C')$

$(A' \cup B \cup C')' \cup (A \cup C)'$

$(A \cap B)' \cap (A \cap C')' \cap (A' \cap C)'$

6.



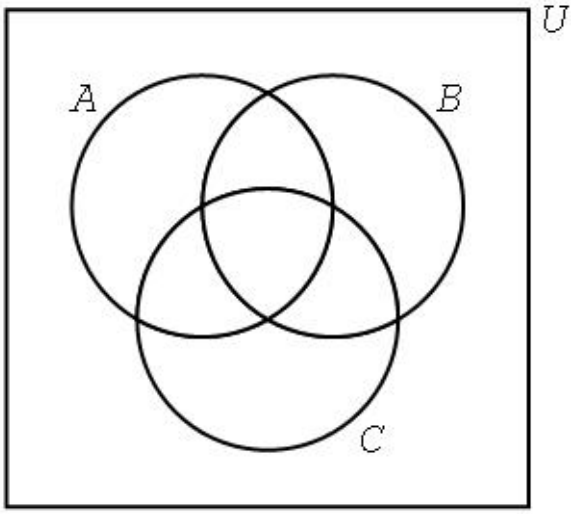

$(A \cap B) \cup (B \cap C) \cup (B' \cap C')$

$(A \cup B' \cup C) \cap (B \cup C')$

$(A' \cup B')' \cup (B' \cup C')' \cup (B \cup C)'$

$(A' \cap B \cap C')' \cap (B' \cap C)'$

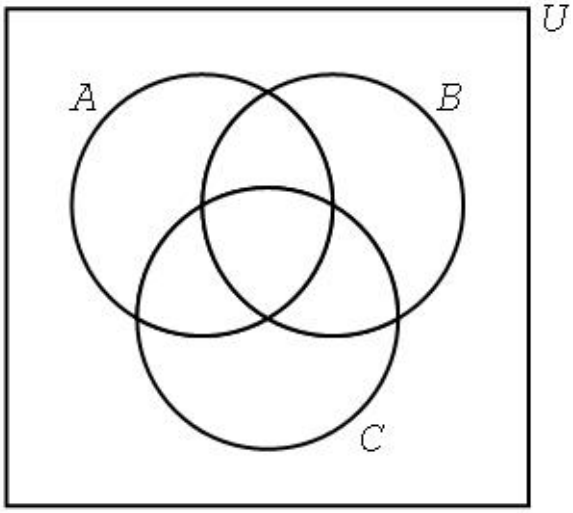
7.




$$A \cup B \cup C'$$

$$(A' \cap B' \cap C)'$$

8.



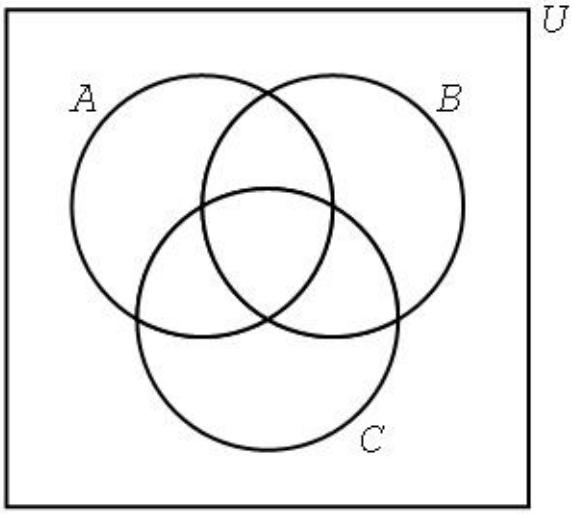

$$(A' \cap B' \cap C) \cup (B \cap C')$$

$$(A' \cup C') \cap (B' \cup C') \cap (B \cup C)$$

$$(A \cup B \cup C')' \cup (B' \cup C)'$$

$$(A \cap C)' \cap (B \cap C)' \cap (B' \cap C')'$$

9.



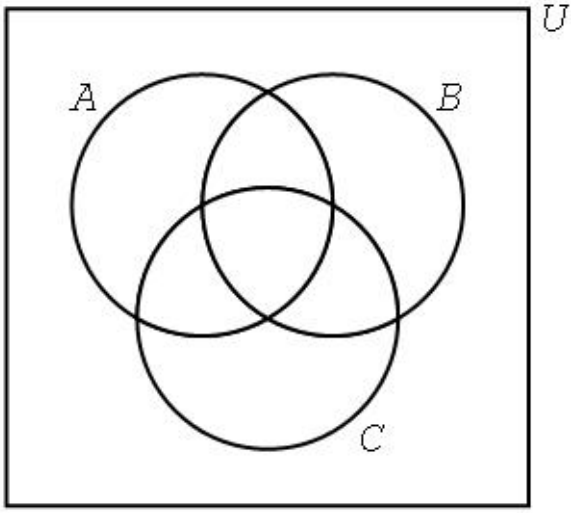

$(A \cap B) \cup (A \cap C)$

$A \cap (B \cup C)$

$(A' \cup B')' \cup (A' \cup C')'$

$A \cap (B' \cap C')'$

10.



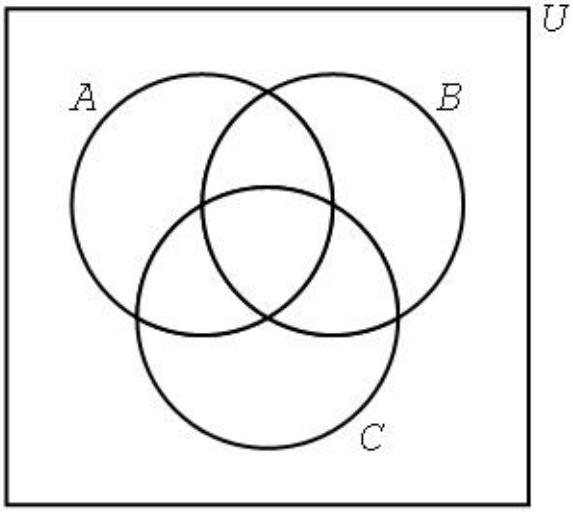

$(A \cap B') \cup (B' \cap C)$

$(A \cup C) \cap B'$

$(A' \cup B)' \cup (B \cup C')'$

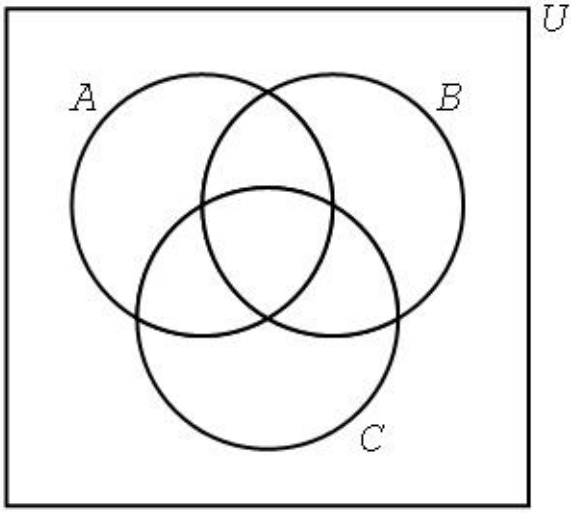
$(A' \cap C')' \cap B'$

11.




$C'$

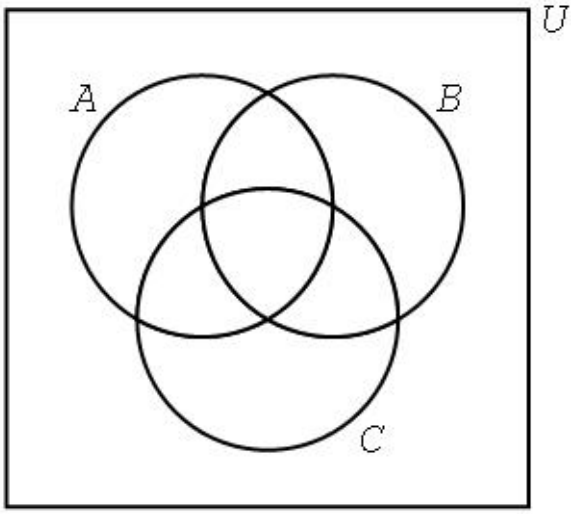
12.




$A \cup B'$

$(A' \cap B)'$

13.



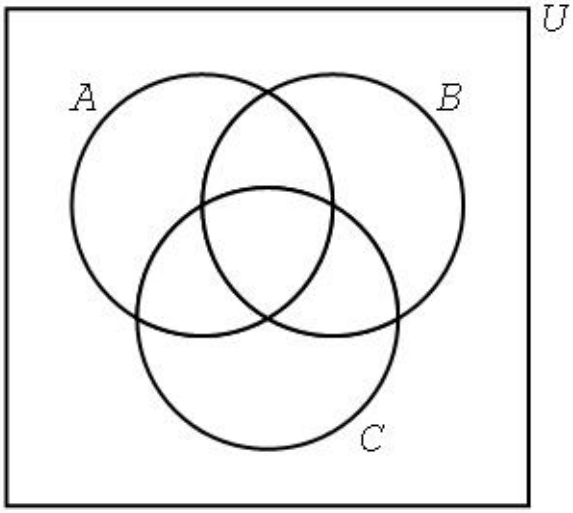

$(A' \cap B') \cup (A' \cap C) \cup (B' \cap C)$

$(A' \cup B') \cap (A' \cup C) \cap (B' \cup C)$

$(A \cup B)' \cup (A \cup C')' \cup (B \cup C')'$

$(A \cap B)' \cap (A \cap C')' \cap (B \cap C')'$

14.



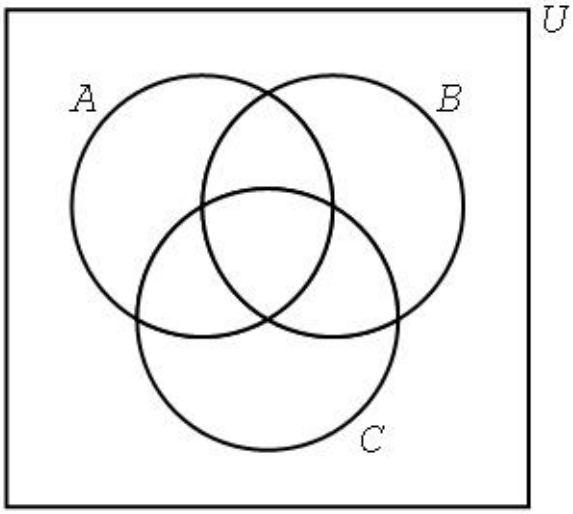

$(A \cap B) \cup (B \cap C') \cup (B' \cap C)$

$(A \cup B' \cup C') \cap (B \cup C)$

$(A' \cup B')' \cup (B' \cup C)' \cup (B \cup C')'$

$(A' \cap B \cap C)' \cap (B' \cap C')'$

15.



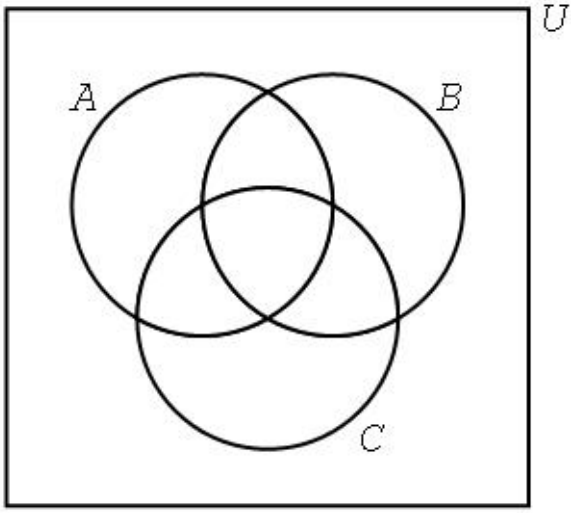

$(A \cap B \cap C') \cup (A' \cap B \cap C)$

$(A' \cup C') \cap (A \cup C) \cap B$

$(A' \cup B' \cup C)' \cup (A \cup B' \cup C')'$

$(A \cap C)' \cap (A' \cap C')' \cap B$

16.



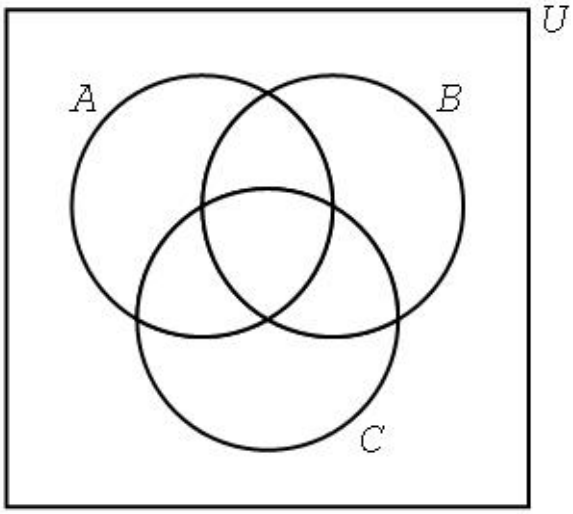

$(A' \cap B') \cup (A' \cap C) \cup (B' \cap C)$

$(A' \cup B') \cap (A' \cup C) \cap (B' \cup C)$

$(A \cup B)' \cup (A \cup C')' \cup (B \cup C')'$

$(A \cap B)' \cap (A \cap C')' \cap (B \cap C')'$

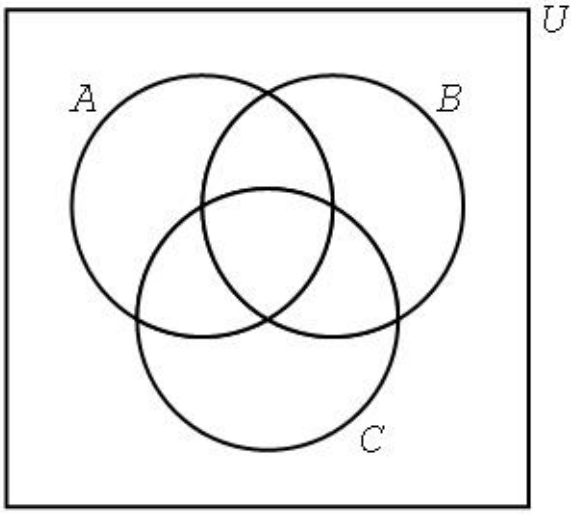
17.




$$A \cup B'$$

$$(A' \cap B)'$$

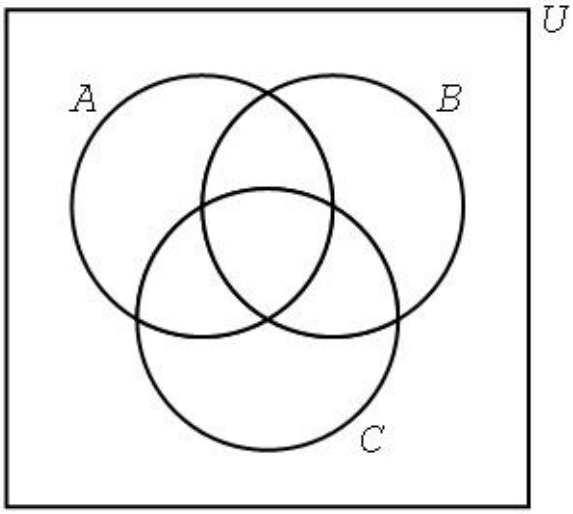
18.




$$A' \cup B'$$

$$(A \cap B)'$$

19.



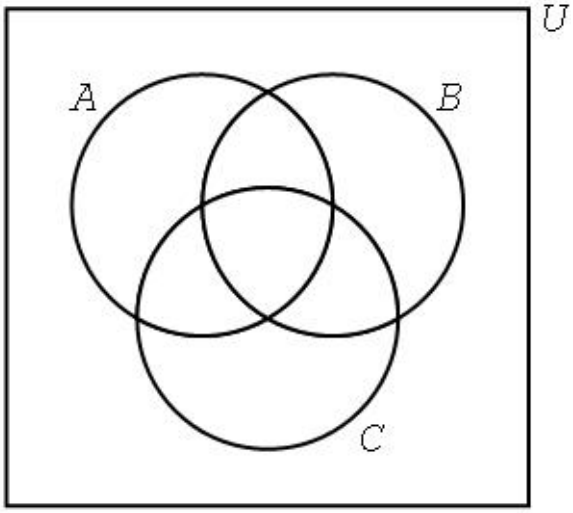

$(A \cap B' \cap C') \cup (B \cap C)$

$(A \cup B) \cap (B' \cup C) \cap (B \cup C')$

$(A' \cup B \cup C)' \cup (B' \cup C')'$

$(A' \cap B')' \cap (B \cap C')' \cap (B' \cap C)'$

20.



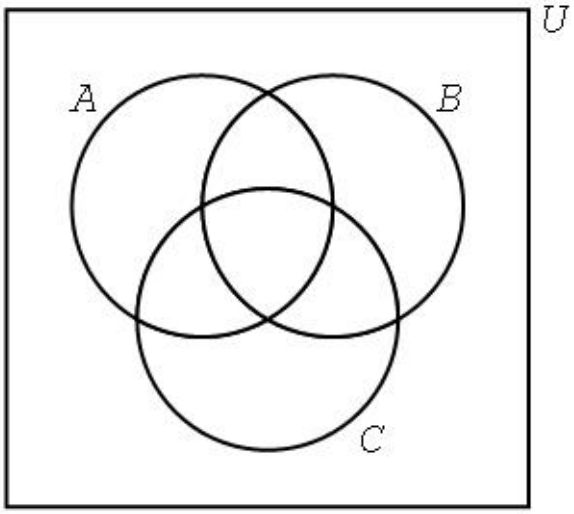

$(A \cap C) \cup (A' \cap B') \cup (B \cap C')$

$(A' \cup B \cup C) \cap (A \cup B' \cup C')$

$(A' \cup C')' \cup (A \cup B)' \cup (B' \cup C)'$

$(A \cap B' \cap C')' \cap (A' \cap B \cap C)'$

21.



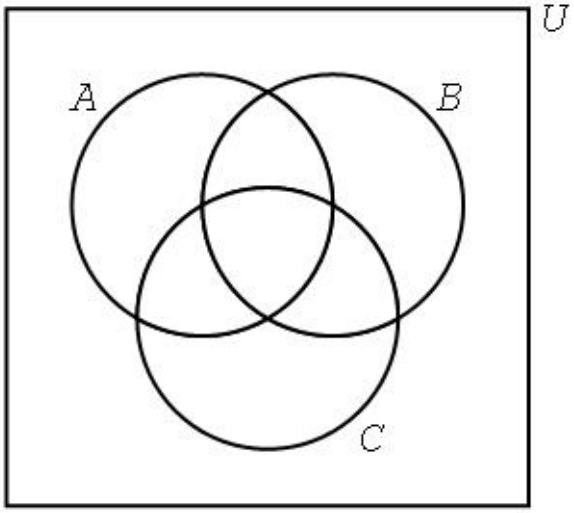

$(A \cap B') \cup (A' \cap B \cap C') \cup (B' \cap C)$

$(A' \cup B') \cap (A \cup B \cup C) \cap (B' \cup C')$

$(A' \cup B)' \cup (A \cup B' \cup C)' \cup (B \cup C')'$

$(A \cap B)' \cap (A' \cap B' \cap C')' \cap (B \cap C)'$

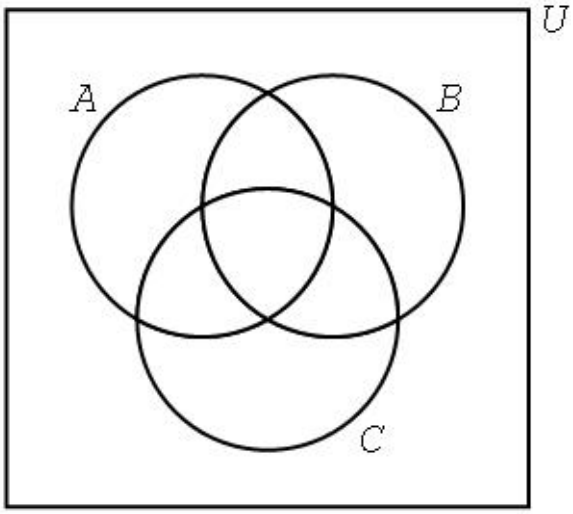
22.




$$A \cap B' \cap C'$$

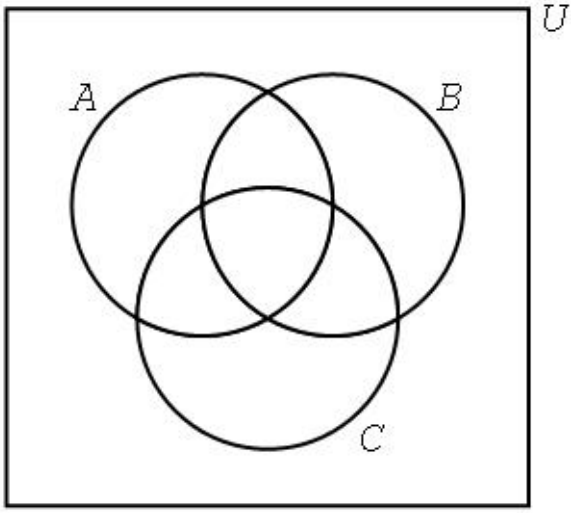
$$(A' \cup B \cup C)'$$

23.



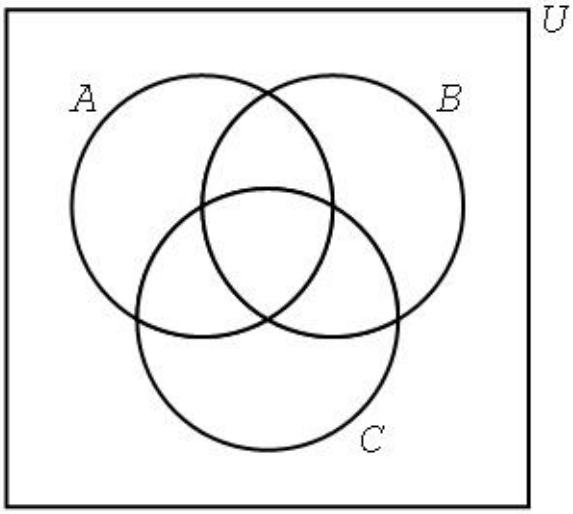

$(A \cap C) \cup (A' \cap B) \cup (B' \cap C')$
$(A' \cup B' \cup C) \cap (A \cup B \cup C')$
$(A' \cup C')' \cup (A \cup B')' \cup (B \cup C)'$
$(A \cap B \cap C')' \cap (A' \cap B' \cap C)'$

24.




$(A \cap B) \cup (A' \cap B' \cap C') \cup (B \cap C)$
$(A' \cup B) \cap (A \cup B' \cup C) \cap (B \cup C')$
$(A' \cup B')' \cup (A \cup B \cup C)' \cup (B' \cup C')'$
$(A \cap B')' \cap (A' \cap B \cap C')' \cap (B' \cap C)'$

25.



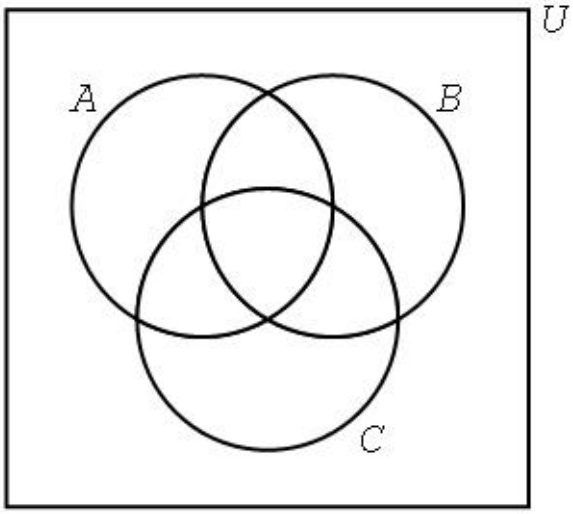

$(A' \cap B) \cup (A' \cap C')$

$A' \cap (B \cup C')$

$(A \cup B')' \cup (A \cup C)'$

$A' \cap (B' \cap C)'$

26.



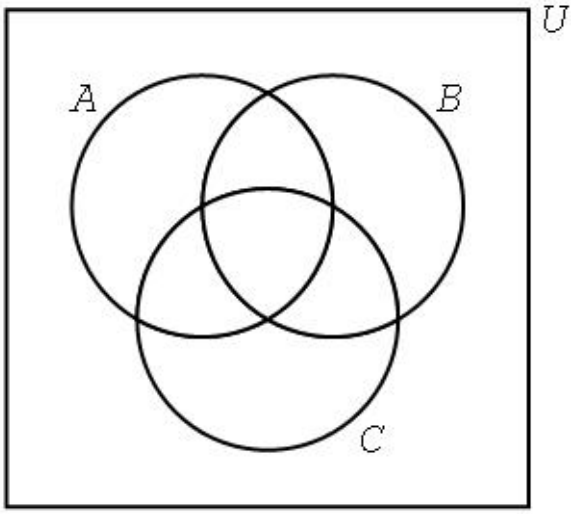

$(A \cap B) \cup (A' \cap C)$

$(A' \cup B) \cap (A \cup C)$

$(A' \cup B')' \cup (A \cup C')'$

$(A \cap B')' \cap (A' \cap C')'$

27.



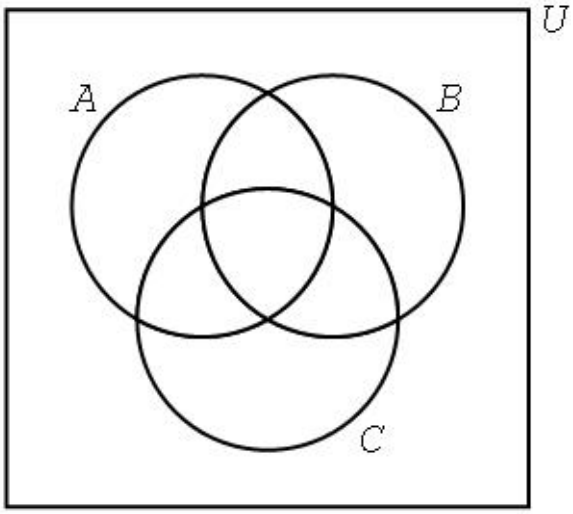

$(A \cap B') \cup (B \cap C')$

$(A \cup B) \cap (B' \cup C')$

$(A' \cup B)' \cup (B' \cup C)'$

$(A' \cap B')' \cap (B \cap C)'$

28.



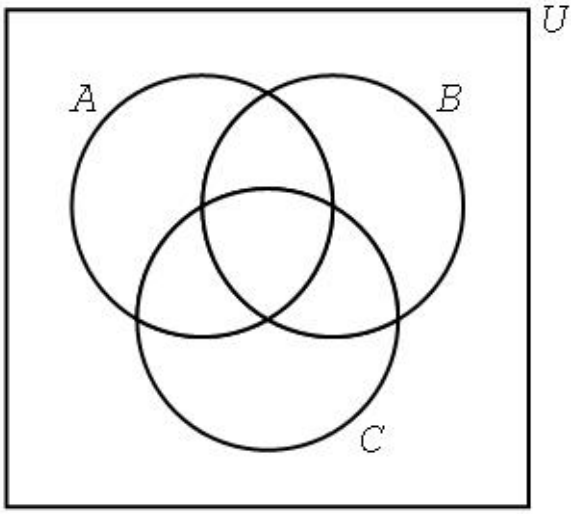

$(A \cap B) \cup (B' \cap C')$

$(A \cup B') \cap (B \cup C')$

$(A' \cup B')' \cup (B \cup C)'$

$(A' \cap B)' \cap (B' \cap C)'$

29.



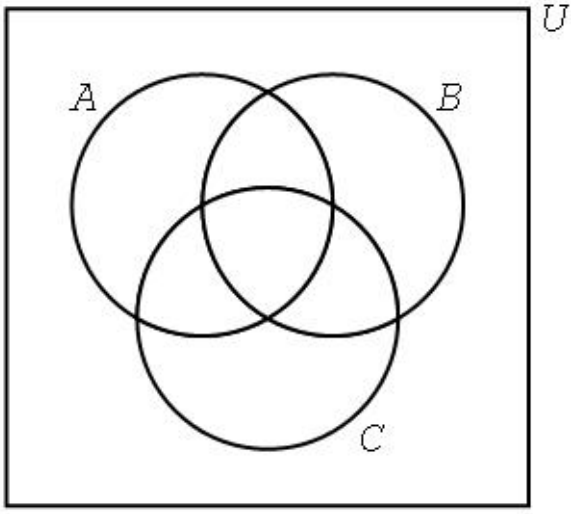

$(A \cap C') \cup (A' \cap B')$

$(A' \cup C') \cap (A \cup B')$

$(A' \cup C)' \cup (A \cup B)'$

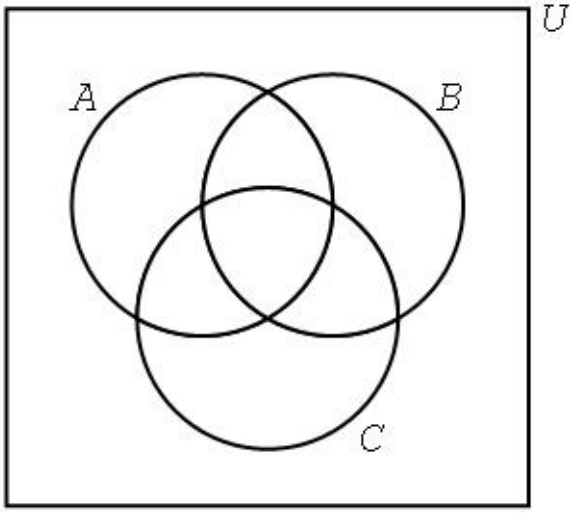
$(A \cap C)' \cap (A' \cap B)'$

30.




$A'$

31.



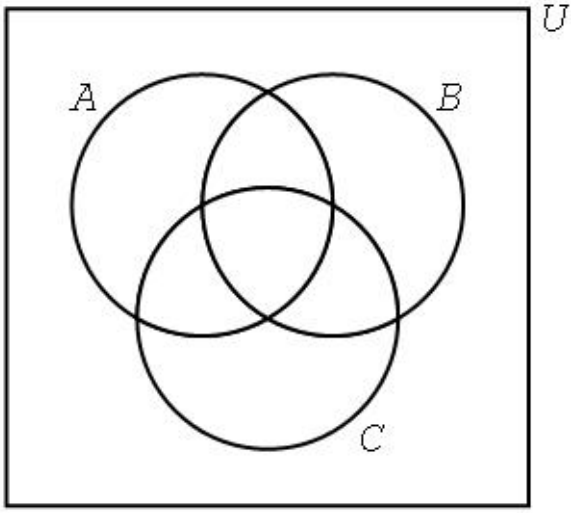

$(A \cap B \cap C) \cup (A \cap B' \cap C')$

$A \cap (B' \cup C) \cap (B \cup C')$

$(A' \cup B' \cup C')' \cup (A' \cup B \cup C)'$

$A \cap (B \cap C')' \cap (B' \cap C)'$

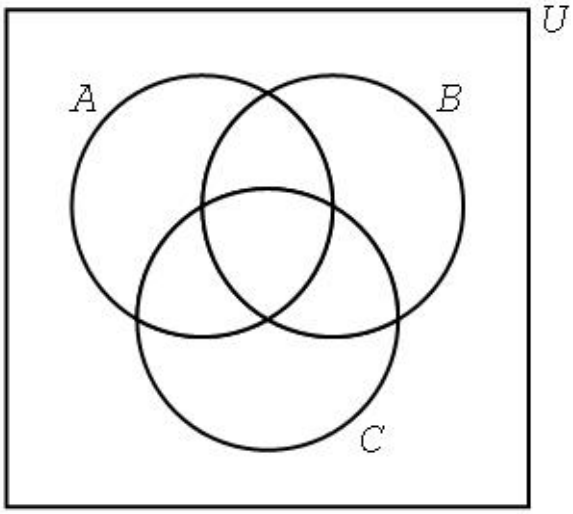
32.




$$A \cup B' \cup C$$

$$(A' \cap B \cap C')'$$

33.



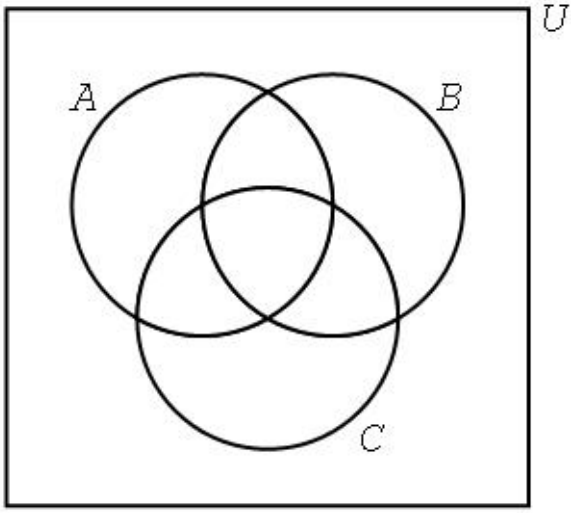

$(A \cap C') \cup (A' \cap B) \cup (A' \cap C)$

$(A' \cup C') \cap (A \cup B \cup C)$

$(A' \cup C)' \cup (A \cup B')' \cup (A \cup C')'$

$(A \cap C)' \cap (A' \cap B' \cap C')'$

34.



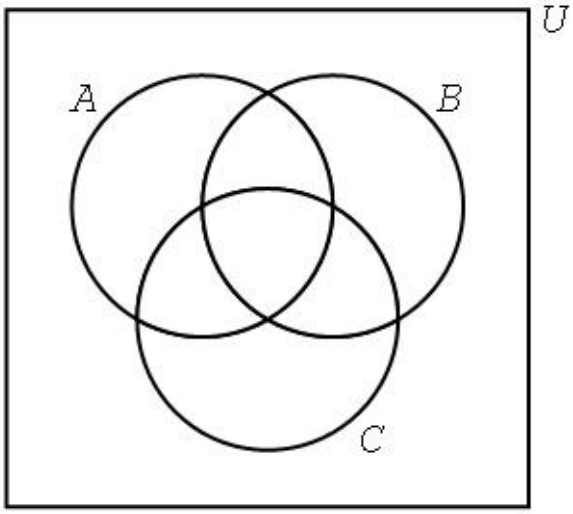

$(A' \cap C') \cup (B \cap C')$

$(A' \cup B) \cap C'$

$(A \cup C)' \cup (B' \cup C)'$

$(A \cap B')' \cap C'$

35.



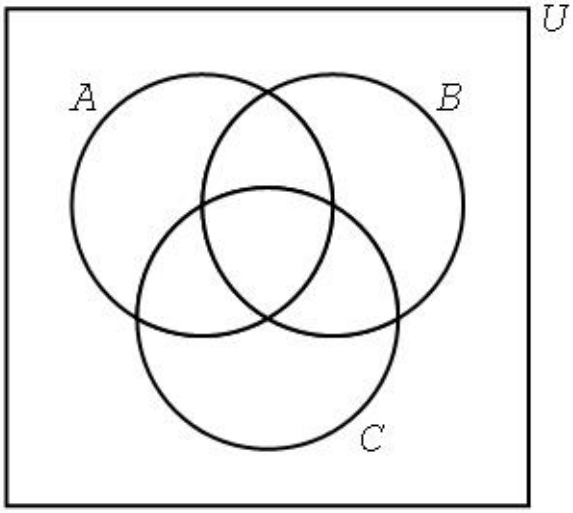

$(A \cap C') \cup (A' \cap B' \cap C)$

$(A' \cup C') \cap (A \cup C) \cap (B' \cup C')$

$(A' \cup C)' \cup (A \cup B \cup C')'$

$(A \cap C)' \cap (A' \cap C')' \cap (B \cap C)'$

36.



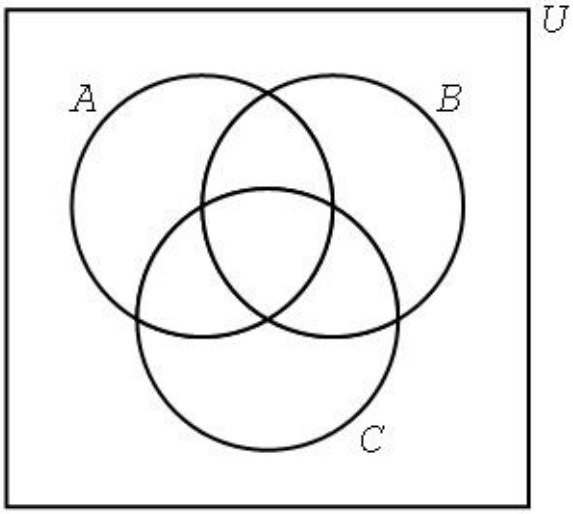

$(A \cap C) \cup (B' \cap C)$

$(A \cup B') \cap C$

$(A' \cup C')' \cup (B \cup C')'$

$(A' \cap B)' \cap C$

37.



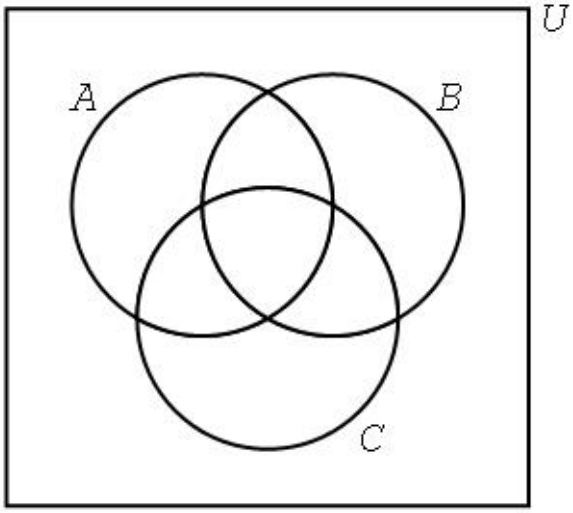

$(A \cap C) \cup (A' \cap B' \cap C')$

$(A' \cup C) \cap (A \cup C') \cap (B' \cup C)$

$(A' \cup C')' \cup (A \cup B \cup C)'$

$(A \cap C')' \cap (A' \cap C)' \cap (B \cap C')'$

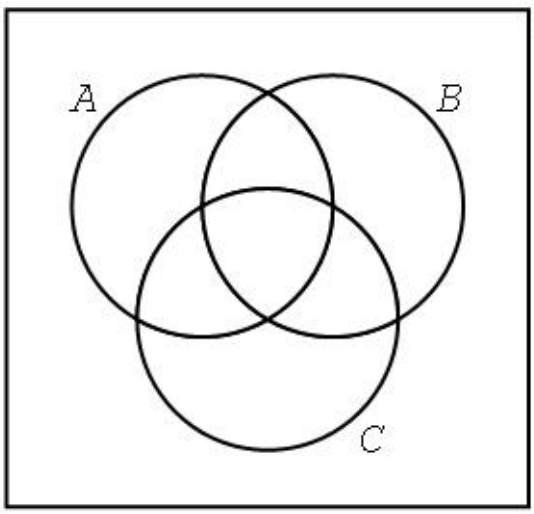
38.




$$A' \cup B \cup C'$$

$$(A \cap B' \cap C)'$$

39.



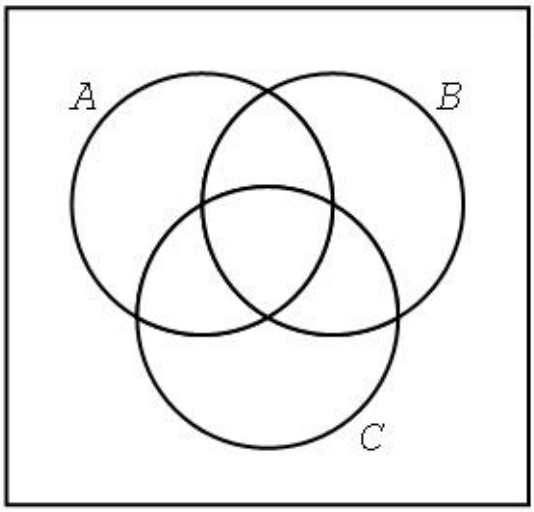

$(A' \cap C) \cup (B' \cap C)$

$(A' \cup B') \cap C$

$(A \cup C')' \cup (B \cup C')'$

$(A \cap B)' \cap C$

40.

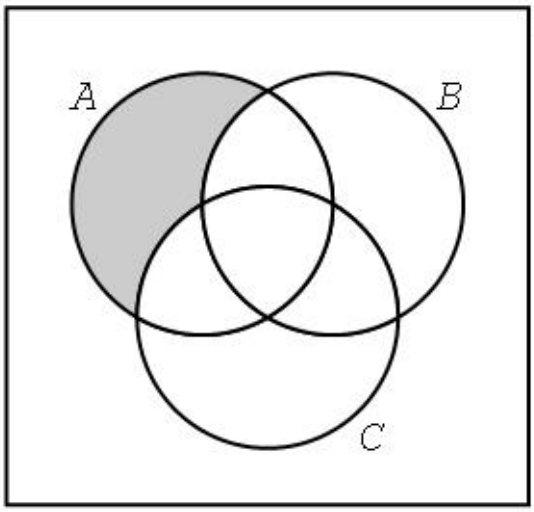



$A' \cup B' \cup C'$

$(A \cap B \cap C)'$

Rešitve:

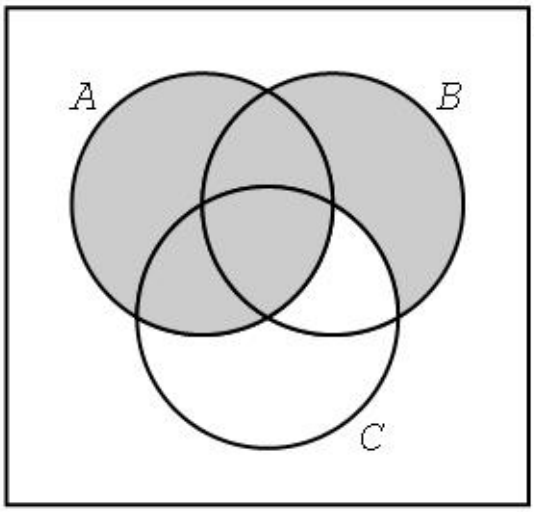
1.




$$A \cap B' \cap C'$$

$$(A' \cup B \cup C)'$$

2.



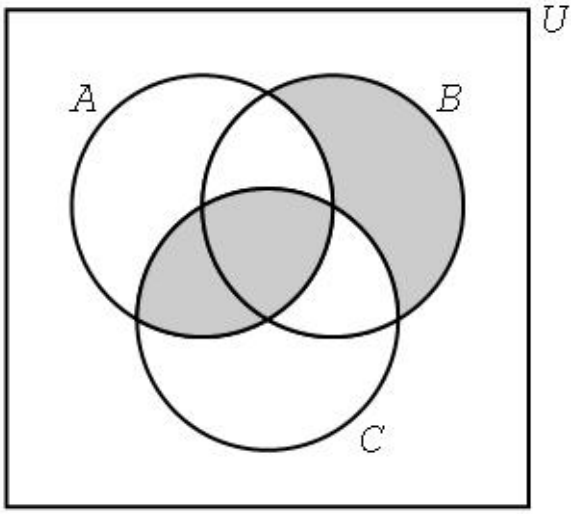

$$A \cup (B \cap C')$$

$$(A \cup B) \cap (A \cup C')$$

$$A \cup (B' \cup C)'$$

$$(A' \cap B')' \cap (A' \cap C)'$$

3.



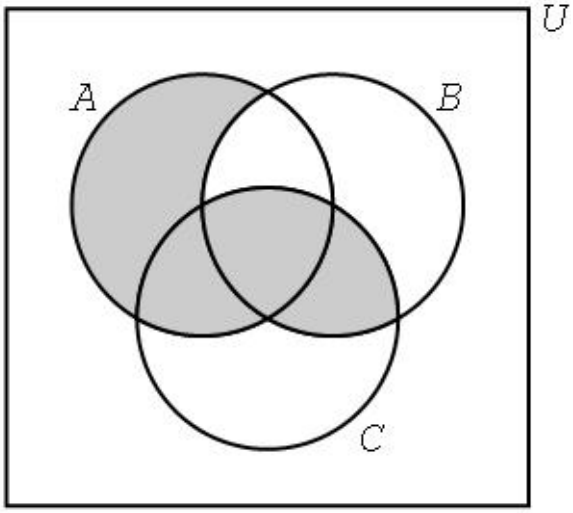

$(A \cap C) \cup (A' \cap B \cap C')$

$(A' \cup C) \cap (A \cup B) \cap (A \cup C')$

$(A' \cup C')' \cup (A \cup B' \cup C)'$

$(A \cap C')' \cap (A' \cap B')' \cap (A' \cap C)'$

4.



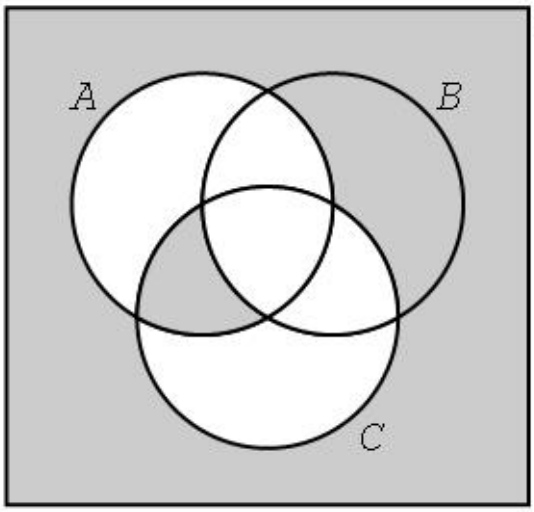

$(A \cap B') \cup (B \cap C)$

$(A \cup B) \cap (B' \cup C)$

$(A' \cup B)' \cup (B' \cup C')'$

$(A' \cap B')' \cap (B \cap C')'$

5.



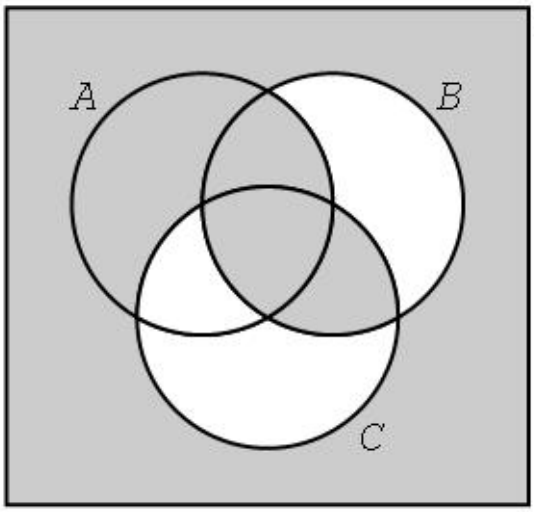

$(A \cap B' \cap C) \cup (A' \cap C')$

$(A' \cup B') \cap (A' \cup C) \cap (A \cup C')$

$(A' \cup B \cup C')' \cup (A \cup C)'$

$(A \cap B)' \cap (A \cap C')' \cap (A' \cap C)'$

6.



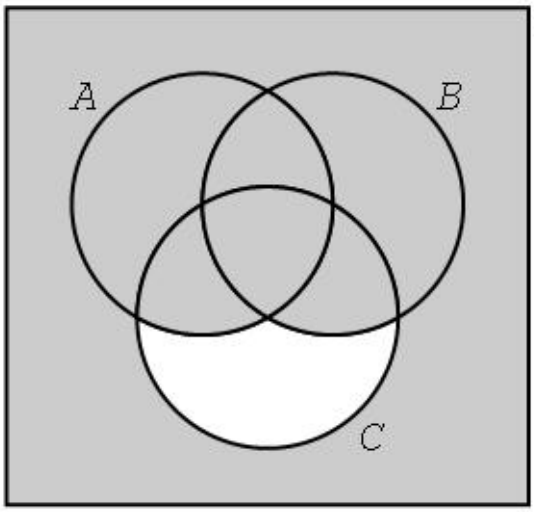

$(A \cap B) \cup (B \cap C) \cup (B' \cap C')$

$(A \cup B' \cup C) \cap (B \cup C')$

$(A' \cup B')' \cup (B' \cup C')' \cup (B \cup C)'$

$(A' \cap B \cap C')' \cap (B' \cap C)'$

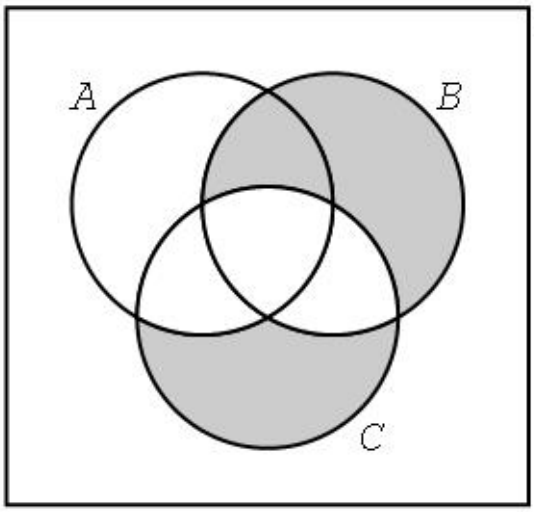
7.




$$A \cup B \cup C'$$

$$(A' \cap B' \cap C)'$$

8.



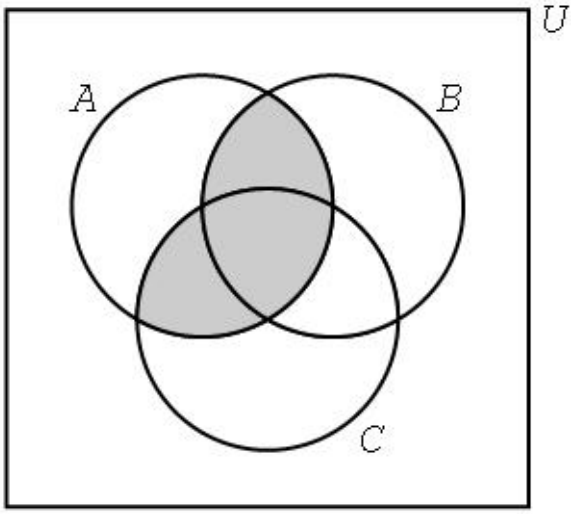

$$(A' \cap B' \cap C) \cup (B \cap C')$$

$$(A' \cup C') \cap (B' \cup C') \cap (B \cup C)$$

$$(A \cup B \cup C')' \cup (B' \cup C)'$$

$$(A \cap C)' \cap (B \cap C)' \cap (B' \cap C')'$$

9.



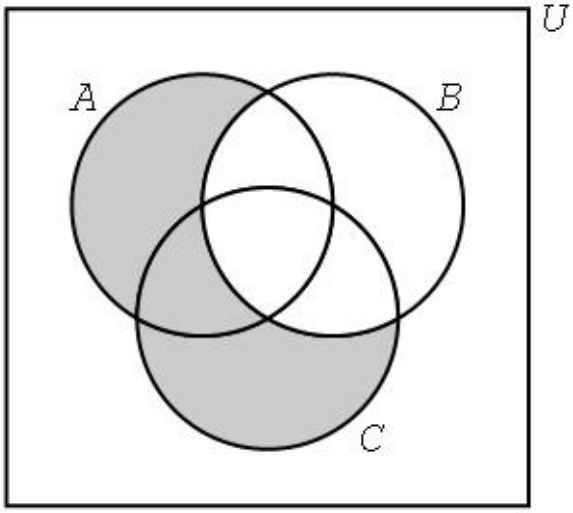

$(A \cap B) \cup (A \cap C)$

$A \cap (B \cup C)$

$(A' \cup B')' \cup (A' \cup C')'$

$A \cap (B' \cap C')'$

10.



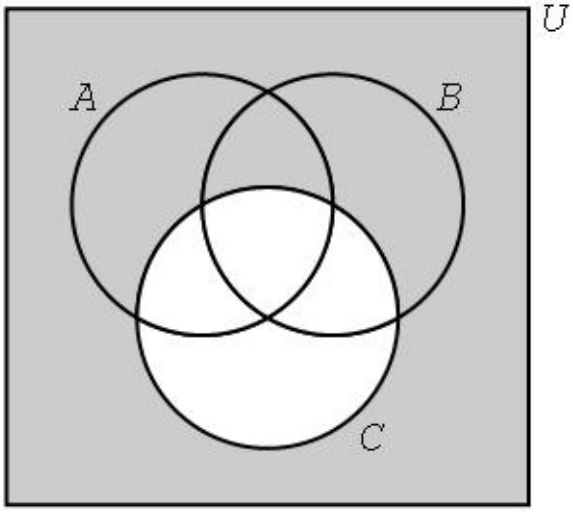

$(A \cap B') \cup (B' \cap C)$

$(A \cup C) \cap B'$

$(A' \cup B)' \cup (B \cup C')'$

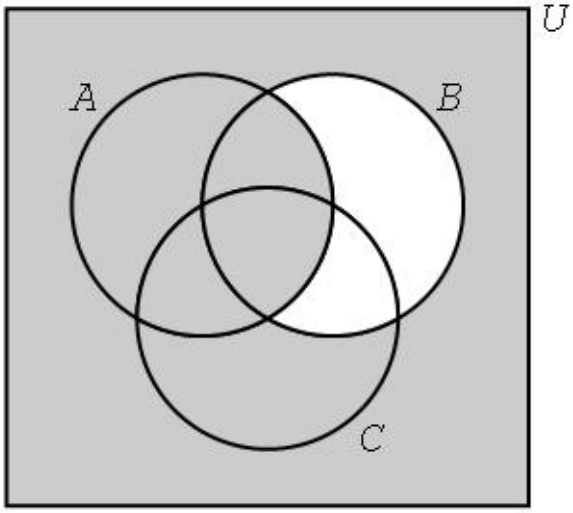
$(A' \cap C')' \cap B'$

11.




$C'$

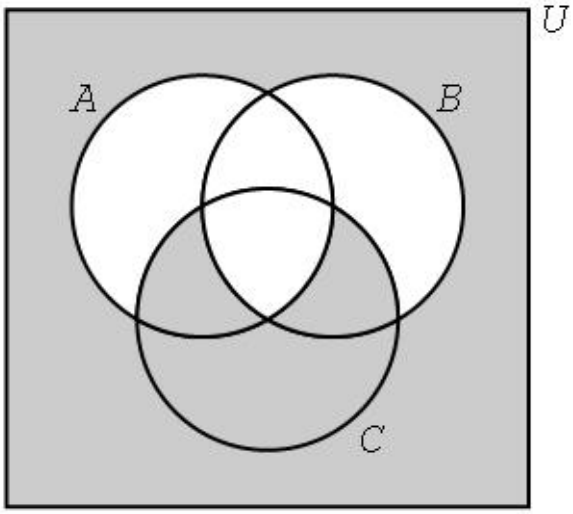
12.




$A \cup B'$

$(A' \cap B)'$

13.



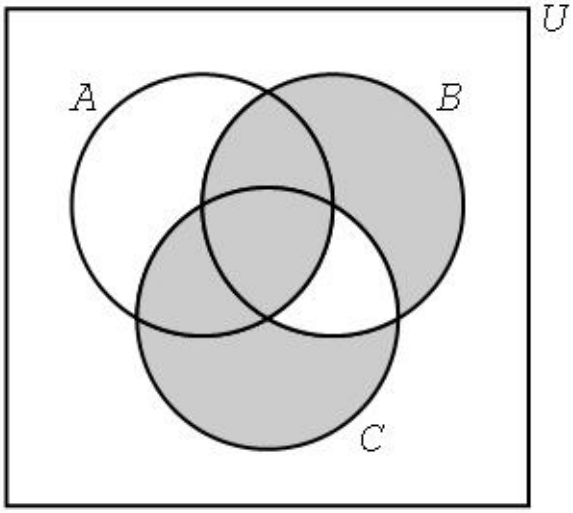

$(A' \cap B') \cup (A' \cap C) \cup (B' \cap C)$

$(A' \cup B') \cap (A' \cup C) \cap (B' \cup C)$

$(A \cup B)' \cup (A \cup C')' \cup (B \cup C')'$

$(A \cap B)' \cap (A \cap C')' \cap (B \cap C')'$

14.



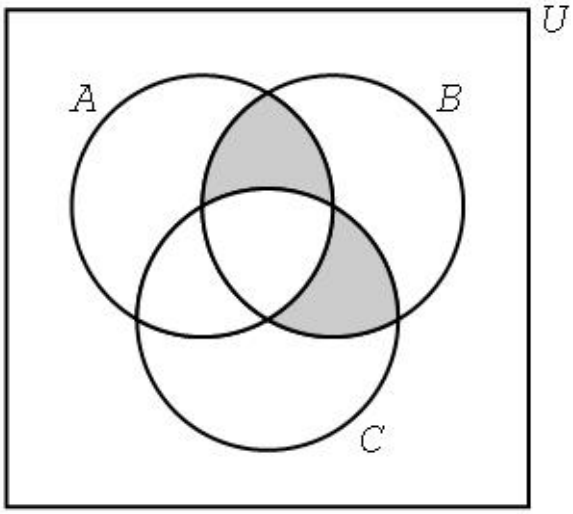

$(A \cap B) \cup (B \cap C') \cup (B' \cap C)$

$(A \cup B' \cup C') \cap (B \cup C)$

$(A' \cup B')' \cup (B' \cup C)' \cup (B \cup C')'$

$(A' \cap B \cap C)' \cap (B' \cap C')'$

15.



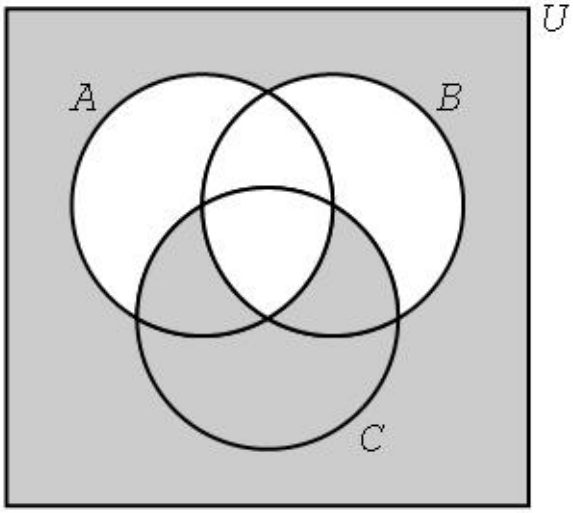

$(A \cap B \cap C') \cup (A' \cap B \cap C)$

$(A' \cup C') \cap (A \cup C) \cap B$

$(A' \cup B' \cup C)' \cup (A \cup B' \cup C')'$

$(A \cap C)' \cap (A' \cap C')' \cap B$

16.



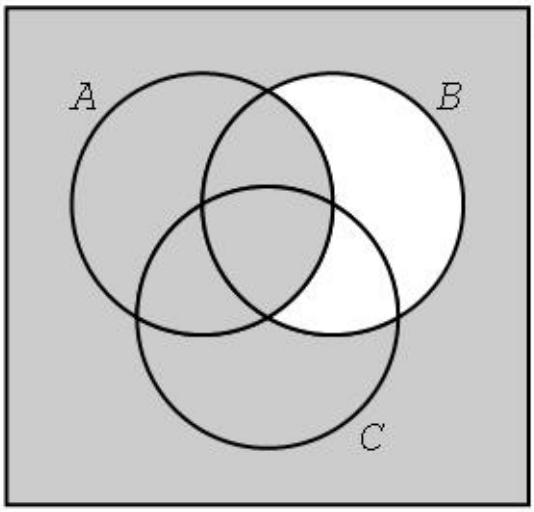

$(A' \cap B') \cup (A' \cap C) \cup (B' \cap C)$

$(A' \cup B') \cap (A' \cup C) \cap (B' \cup C)$

$(A \cup B)' \cup (A \cup C')' \cup (B \cup C')'$

$(A \cap B)' \cap (A \cap C')' \cap (B \cap C')'$

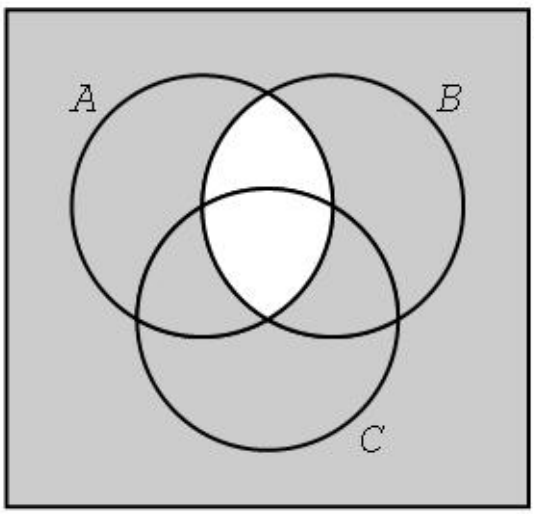
17.




$$A \cup B'$$

$$(A' \cap B)'$$

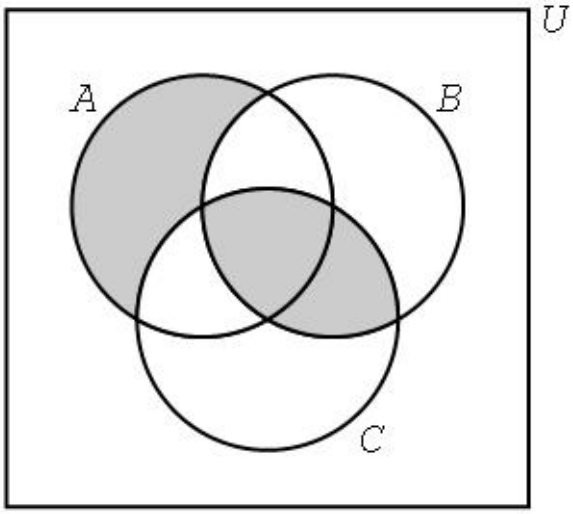
18.




$$A' \cup B'$$

$$(A \cap B)'$$

19.



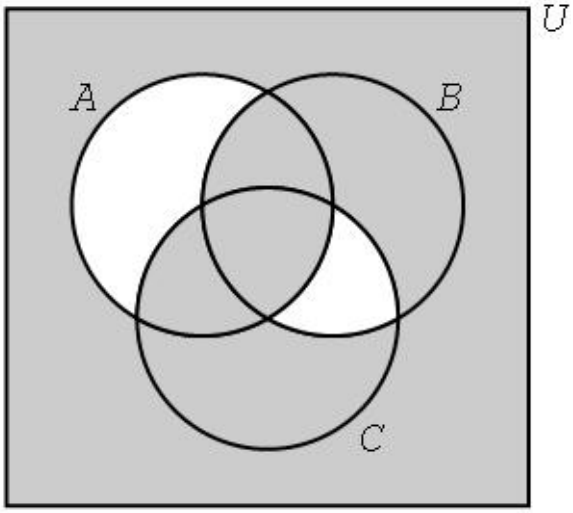

$(A \cap B' \cap C') \cup (B \cap C)$

$(A \cup B) \cap (B' \cup C) \cap (B \cup C')$

$(A' \cup B \cup C)' \cup (B' \cup C')'$

$(A' \cap B')' \cap (B \cap C')' \cap (B' \cap C)'$

20.



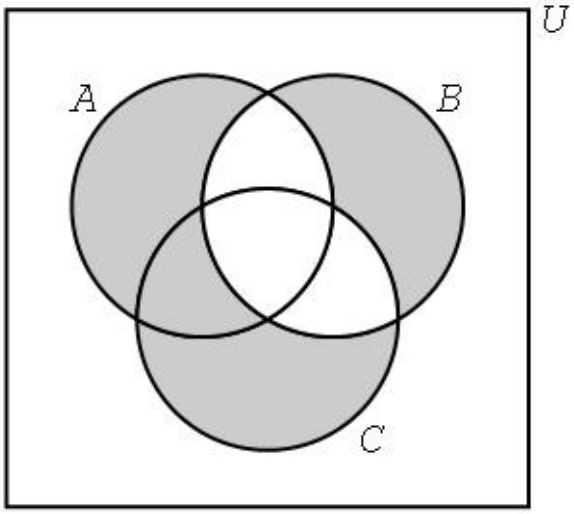

$(A \cap C) \cup (A' \cap B') \cup (B \cap C')$

$(A' \cup B \cup C) \cap (A \cup B' \cup C')$

$(A' \cup C')' \cup (A \cup B)' \cup (B' \cup C)'$

$(A \cap B' \cap C')' \cap (A' \cap B \cap C)'$

21.



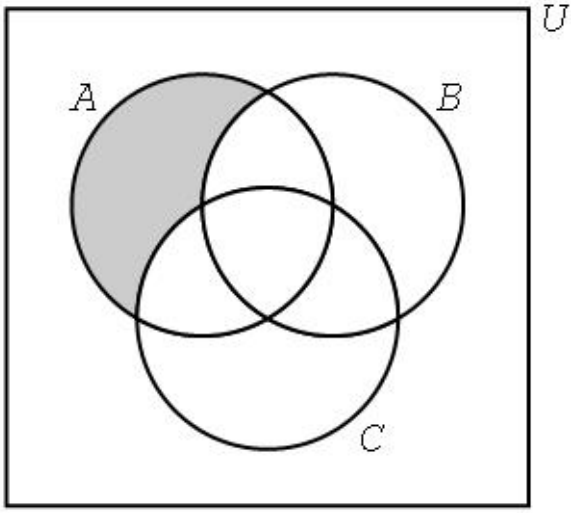

$(A \cap B') \cup (A' \cap B \cap C') \cup (B' \cap C)$

$(A' \cup B') \cap (A \cup B \cup C) \cap (B' \cup C')$

$(A' \cup B)' \cup (A \cup B' \cup C)' \cup (B \cup C')'$

$(A \cap B)' \cap (A' \cap B' \cap C')' \cap (B \cap C)'$

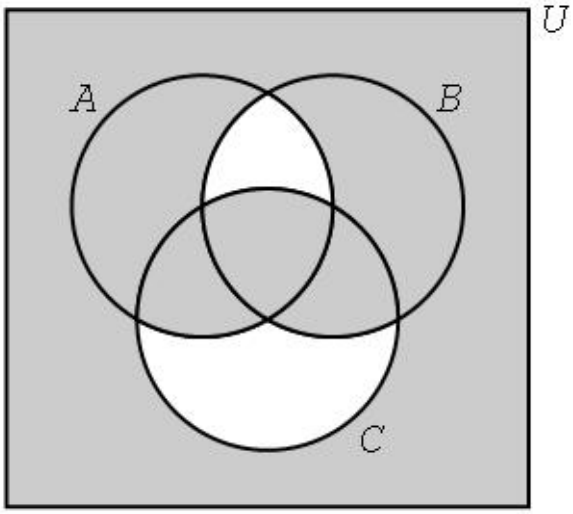
22.




$$A \cap B' \cap C'$$

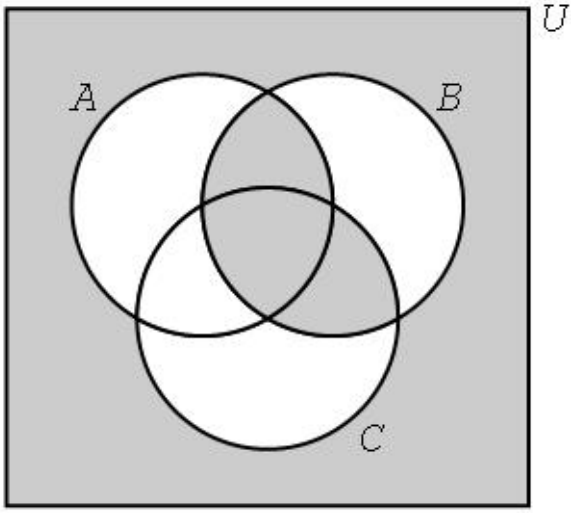
$$(A' \cup B \cup C)'$$

23.



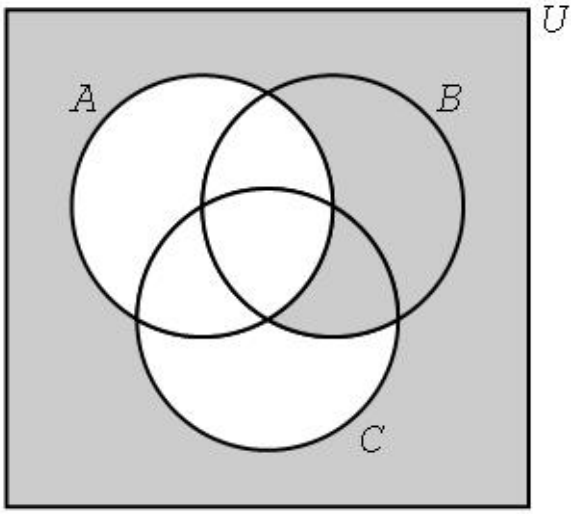

$(A \cap C) \cup (A' \cap B) \cup (B' \cap C')$
$(A' \cup B' \cup C) \cap (A \cup B \cup C')$
$(A' \cup C')' \cup (A \cup B')' \cup (B \cup C)'$
$(A \cap B \cap C')' \cap (A' \cap B' \cap C)'$

24.




$(A \cap B) \cup (A' \cap B' \cap C') \cup (B \cap C)$
$(A' \cup B) \cap (A \cup B' \cup C) \cap (B \cup C')$
$(A' \cup B')' \cup (A \cup B \cup C)' \cup (B' \cup C')'$
$(A \cap B')' \cap (A' \cap B \cap C')' \cap (B' \cap C)'$

25.



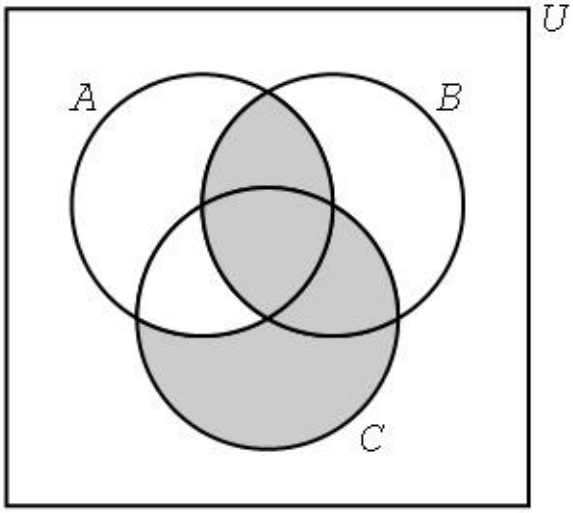

$(A' \cap B) \cup (A' \cap C')$

$A' \cap (B \cup C')$

$(A \cup B')' \cup (A \cup C)'$

$A' \cap (B' \cap C)'$

26.



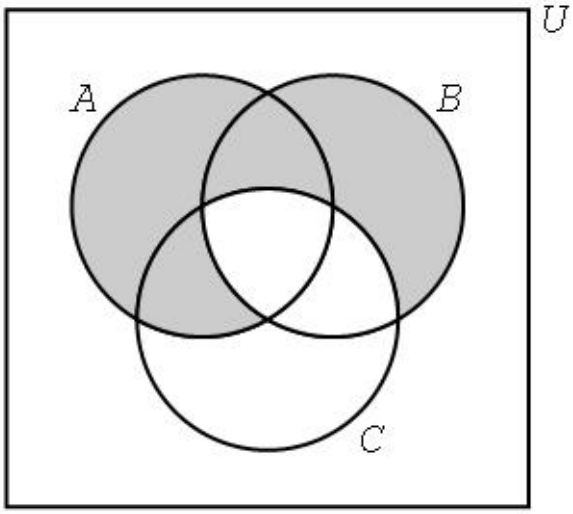

$(A \cap B) \cup (A' \cap C)$

$(A' \cup B) \cap (A \cup C)$

$(A' \cup B')' \cup (A \cup C')'$

$(A \cap B')' \cap (A' \cap C')'$

27.



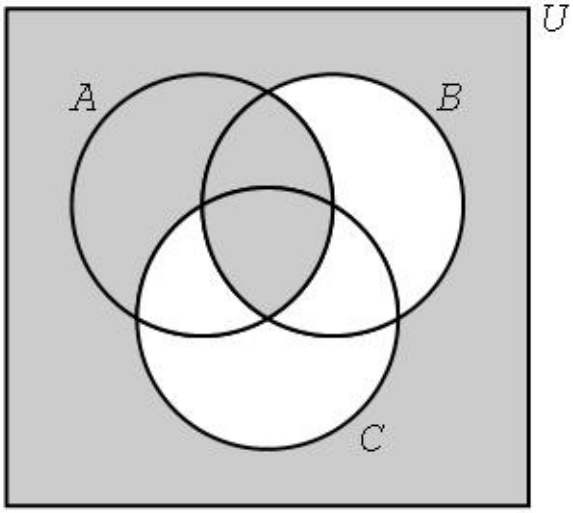

$(A \cap B') \cup (B \cap C')$

$(A \cup B) \cap (B' \cup C')$

$(A' \cup B)' \cup (B' \cup C)'$

$(A' \cap B')' \cap (B \cap C)'$

28.



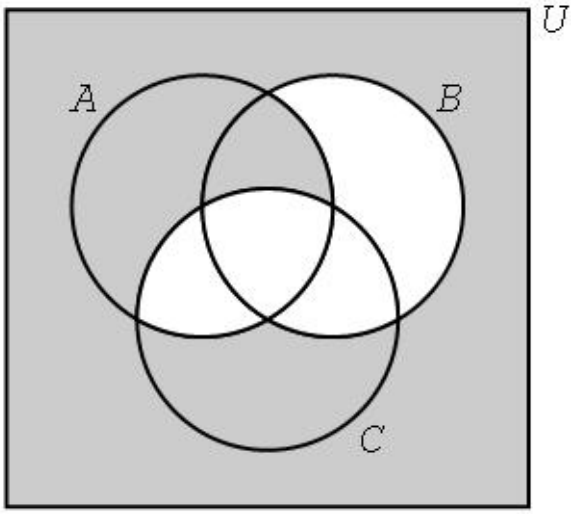

$(A \cap B) \cup (B' \cap C')$

$(A \cup B') \cap (B \cup C')$

$(A' \cup B')' \cup (B \cup C)'$

$(A' \cap B)' \cap (B' \cap C)'$

29.



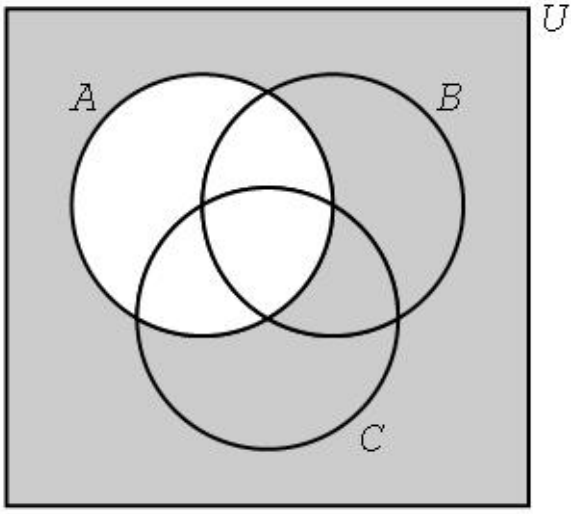

$$(A \cap C') \cup (A' \cap B')$$

$$(A' \cup C') \cap (A \cup B')$$

$$(A' \cup C)' \cup (A \cup B)'$$

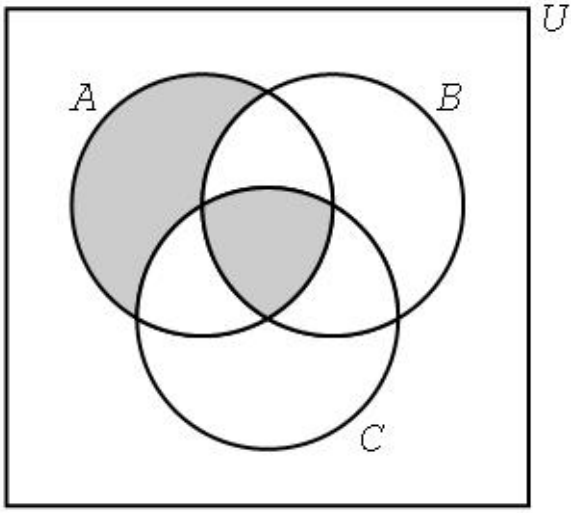
$$(A \cap C)' \cap (A' \cap B)'$$

30.




$$A'$$

31.



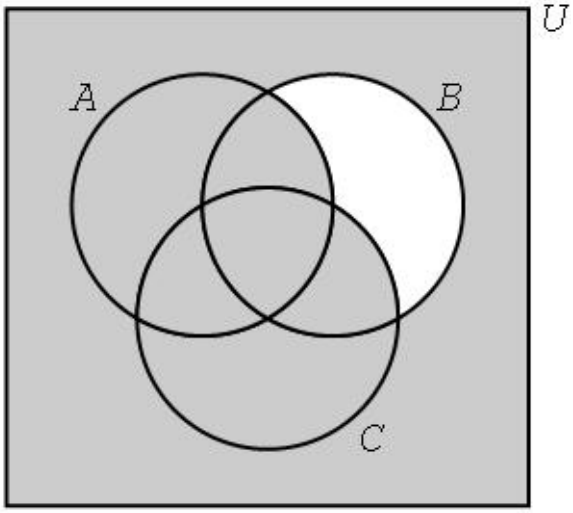

$(A \cap B \cap C) \cup (A \cap B' \cap C')$

$A \cap (B' \cup C) \cap (B \cup C')$

$(A' \cup B' \cup C')' \cup (A' \cup B \cup C)'$

$A \cap (B \cap C')' \cap (B' \cap C)'$

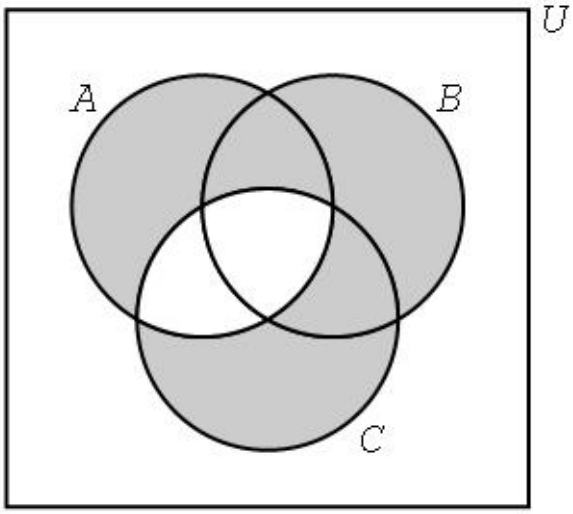
32.




$$A \cup B' \cup C$$

$$(A' \cap B \cap C')'$$

33.



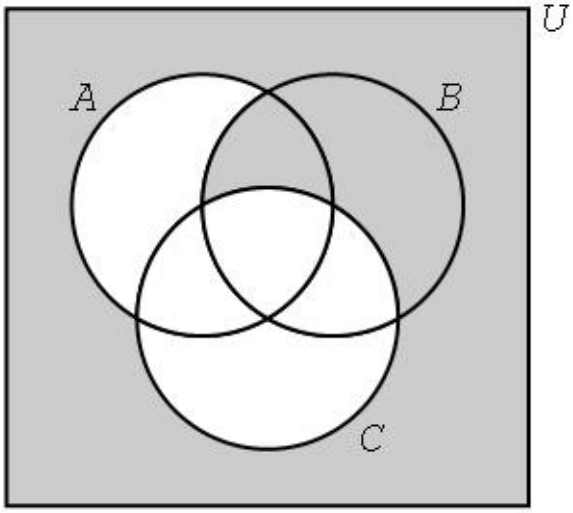

$(A \cap C') \cup (A' \cap B) \cup (A' \cap C)$

$(A' \cup C') \cap (A \cup B \cup C)$

$(A' \cup C)' \cup (A \cup B')' \cup (A \cup C')'$

$(A \cap C)' \cap (A' \cap B' \cap C')'$

34.



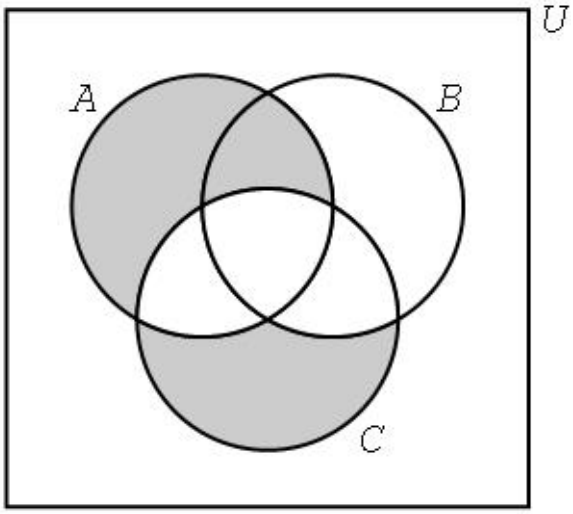

$(A' \cap C') \cup (B \cap C')$

$(A' \cup B) \cap C'$

$(A \cup C)' \cup (B' \cup C)'$

$(A \cap B')' \cap C'$

35.



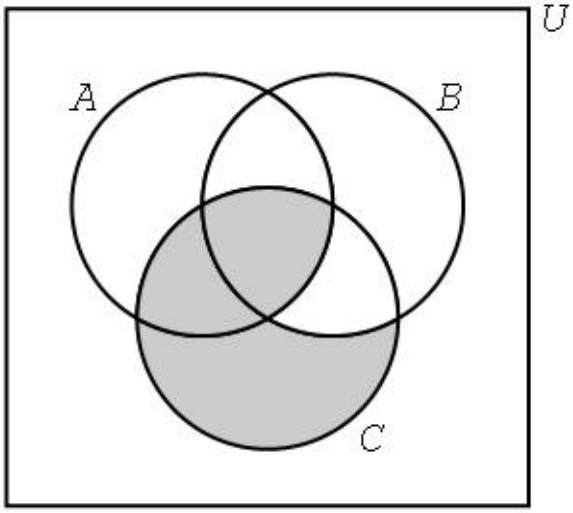

$(A \cap C') \cup (A' \cap B' \cap C)$

$(A' \cup C') \cap (A \cup C) \cap (B' \cup C')$

$(A' \cup C)' \cup (A \cup B \cup C')'$

$(A \cap C)' \cap (A' \cap C')' \cap (B \cap C)'$

36.



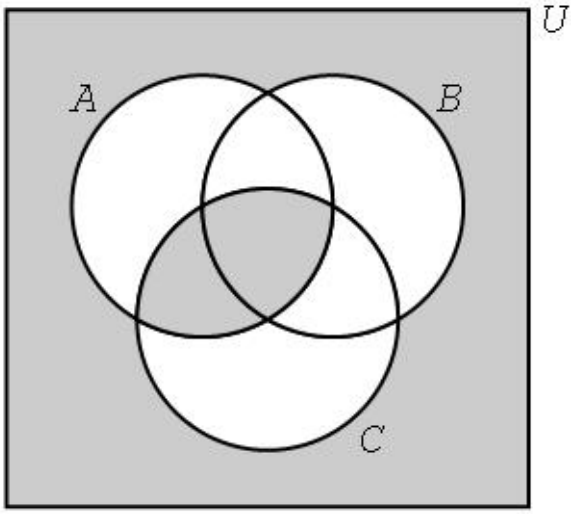

$(A \cap C) \cup (B' \cap C)$

$(A \cup B') \cap C$

$(A' \cup C')' \cup (B \cup C')'$

$(A' \cap B)' \cap C$

37.



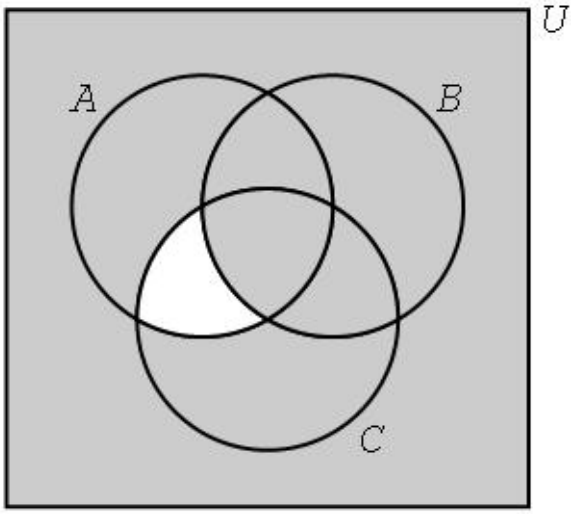

$(A \cap C) \cup (A' \cap B' \cap C')$

$(A' \cup C) \cap (A \cup C') \cap (B' \cup C)$

$(A' \cup C')' \cup (A \cup B \cup C)'$

$(A \cap C')' \cap (A' \cap C)' \cap (B \cap C')'$

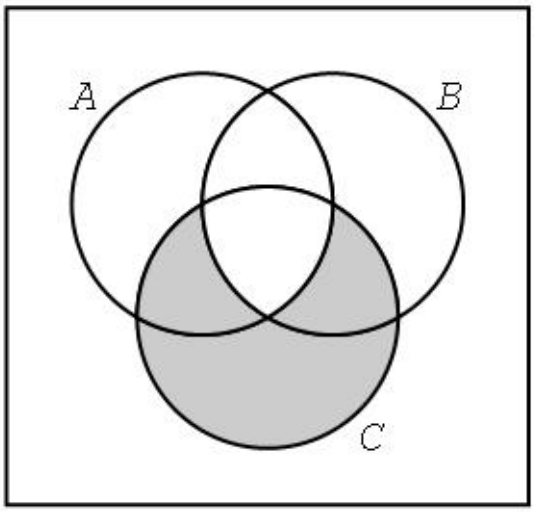
38.




$$A' \cup B \cup C'$$

$$(A \cap B' \cap C)'$$

39.



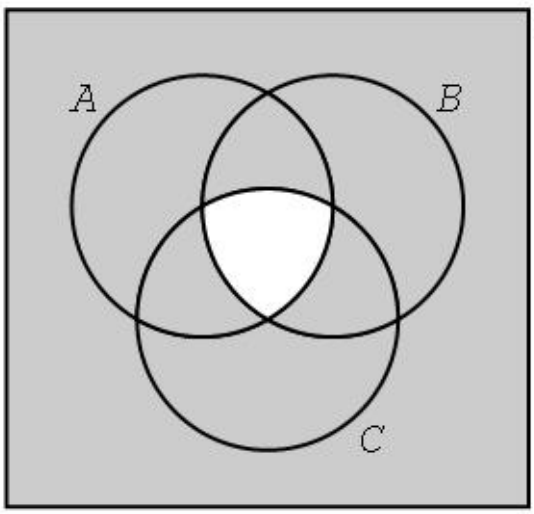

$(A' \cap C) \cup (B' \cap C)$

$(A' \cup B') \cap C$

$(A \cup C')' \cup (B \cup C')'$

$(A \cap B)' \cap C$

40.




$A' \cup B' \cup C'$

$(A \cap B \cap C)'$

**Referenca : Interactive Venn Diagrams from the Wolfram Demonstrations Project**
**http : // demonstrations.wolfram.com / InteractiveVennDiagrams / Contributed by : Marc Brodie (Wheeling Jesuit University)**