**Тема: Высказывания о множествах.**

**Задания**

**Задание 8.** Пусть *U* = {*a*, *b*, *c*, *d*, *e*, *f*, *g*}, *X* = {*a*, *c*, *e*, *g*}, *Y* = {*a*, *b*, *c*}, *Z* = {*b*, *c*, *d*, *e*, *f*}. Выполнить указанные операции:

1. X∪(Y∩Z) – {b,c,a,e,g}
2. Y∩(X∪Z) – {b,c,a}
3. (Y∩Z’)∪X – {a,c,e,g}
4. (X’∪Y’)∩Z – {b,e,f}
5. (Z∪X’)’∩Y – {a}
6. (Y∩X’)’∪Z’ – {a,g}
7. X∖Y – {e,g}
8. Y∖X – {b}
9. X’∖Y – {d,g}
10. Y’∖X – {d,f}
11. X∩(X∖Y) – {e,g}
12. Y∪(Y∖X) – {a,b,c}

**Задание 9.** Пусть *U* = {*a*, *b*, *c*, *d*, *e*, *f*, *g*},*A* = {*a*, *c*, *e*}, *B* = {*a*, *b*, *d*, *e*, *f*}, *C* = {*a*, *c*, *d*, *g*}.

Выполнить указанные операции

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| 01. (A‘ ∖B)∪C – {f,g,a,c,d}  02. (*A*∖*B‘*)∪*C* – {a,c,d,g}  03. (*A*∖*B*)∪*C‘*–{c,b,e,f}  04. (*A*∖*B*)*‘*∪*C* – {a,b,d,e,f,g} | 05. A‘ ∖(B∪C) – {}  06. *A*∖(*B‘* ∪*C*) – {e}  07. *A*∖(*B*∪*C‘*)–{c}  08. *A*∖(*B*∪*C*)*‘* – {a,c,e} | 09. (A‘ ∖B)∩C – {g}  10. (*A*∖*B‘*)∩*C* – {a}  11. (*A*∖*B*)∩*C‘*–{}  12. (*A*∖*B*)*‘*∩*C* – {a,d,g} | 13. A‘ ∖(B∩C) – {b,f,g}  14. *A*∖(*B‘*∩*C*) – {a,e}  15. *A*∖(*B*∩*C‘*)–{a,c}  16. *A*∖(*B*∩*C*)*‘* – {a} |
| 17. (A‘∪B)∖C – {b,e,f}  18. (*A*∪*B‘*)∖*C* – {e}  19. (*A*∪*B*) ∖*C‘*–{a,c,d}  20. (*A*∪*B*)*‘*∖*C* – {} | 21. A‘ ∪(B∖C) – {b,d,e,f,g}  22. *A*∪(*B‘* ∖*C*) – {a,c,e}  23. *A*∪(*B*∖*C‘*)–{a,c,d,e}  24. *A*∪(*B*∖*C*)*‘* – {a,c,d,e,g} | 25. (A‘∩B)∖C – {b,f}  26. (*A*∩*B‘*)∖*C* – {}  27. (*A*∩*B*) ∖*C‘*–{a}  28. (*A*∩*B*)*‘*∖*C* – {b,f} | 29. A‘∩(B∖C) – {b,f}  30. *A*∩(*B‘*∖*C*) – {}  31. *A*∩(*B*∖*C’*) – {a}  32. *A*∩(*B*∖*C*)*’* – {a,c} |